19990902.qrp v01_n567.qrl.990902

Date: Thu,  2 Sep 1999 19:03:13 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1567

QRP-L Digest 1567

Topics covered in this issue include:


  1) [49076] CW Sprint - 7:00 to 11:00 PM - Sat, Sept 4th
     by "Bob Helms" <af5z@inetport.com>
  2) [49077] Re: USB or LSB?
     by "Steve Yates, AA5TB" <aa5tb@swbell.net>
  3) [49078] RS Nibbler
     by tedkell@juno.com
  4) [49079] Re: QRP-L digest 1566
     by Anthony Felino <anthony@pacinfosb.com>
  5) [49080] Battery charger chip?
     by Scott Gregson - KC7MAS <emtech@steadynet.com>
  6) [49081] Re: USB/LSB in CW
     by "S. M. Whitehouse" <ke4yh@gte.net>
  7) [49082] ARDF site 80 Meter DF Project.
     by Ed Loranger <we6w@qsl.net>
  8) [49083] USB/LSB on CW
     by Jeff Grudin <grudin@vdbs.com>
  9) [49084] Old Knight Kit Question
     by "Jim Marciniak" <n1rui@together.net>
 10) [49085] CFA patent access at IBM patent site
     by Jeff Furman <jfurman@ocs.net>
 11) [49086] OT
     by ac5ez@webtv.net (Larry B)
 12) [49087] Antennas, CFA for transmitting
     by "rohre" <rohre@arlut.utexas.edu>
 13) [49088] Re: Proximity Switch Keyer
     by "Nick Kennedy" <nkennedy@cswnet.com>
 14) [49089] BUBBA'99
     by Bob Edwards <w4ed@gis.net>
 15) [49090] TEN TEC ARGONUAT 515: SOLD
     by "Roy" <ab7ce@email.msn.com>
 16) [49091] OT: 2 + 2 <> 4
     by "Bob Helms" <af5z@inetport.com>
 17) [49092] Re: 2n4416a Pinout?
     by "Larry Przyborowski" <lprzyski@erols.com>
 18) [49093] Re: Battery charger chip?
     by Bob Nielsen <nielsen@primenet.com>
 19) [49094] Qrp mod for Ten Tec Scout

    by mailbox-gaskins <pgaskin@imcnet.net>
20) [49095] 2N22/40
    by "Charles Hamel" <cdhamel@pdq.net>
21) [49096] My NC20 is a DX machine!!
    by "Kory Hamzeh" <kory@avatar.com>
22) [49097] Yet another usable enclosure...
    by DOCROCK1T@aol.com
23) [49098] RE: 2N22/40
    by "Alex Mendelsohn" <ai2q@ispchannel.com>
24) [49099] Re: F5IN
    by "Randy Jouett" <rules@bellsouth.net>
25) [49100] Capacitance
    by Robert P Engelman <rengelwb8uoj@juno.com>
26) [49101] paddles for sale
    by Bob Hirsch <bobh@p3.net>
27) [49102] OT: HTML Editor
    by "Al Gritzmacher" <ae2t@localnet.com>
28) [49103] Re: Major QRPp Dilemma
    by "Larry Przyborowski" <lprzyski@erols.com>
29) [49104] Re: OT: HTML Editor
    by Monte Stark <ku7y@dri.edu>
30) [49105] Both sets are spoken for
    by Bob Hirsch <bobh@p3.net>
31) [49106] RE: Capacitance
    by "Ed Tanton" <n4xy@att.net>
32) [49107] RE: Capacitance-one OOPS...
    by "Ed Tanton" <n4xy@att.net>
33) [49108] Re: Capacitance
    by "Mark Bellamy" <mark@intermediatn.net>
34) [49109] QRP Expedition to Shuksan Arm
    by "Bruce Prior" <n7rr@hotmail.com>
35) [49110] Re: My NC20 is a DX machine!!
    by Phil Wheeler <w7ox@mindspring.com>
36) [49111] Re: USB or LSB?
    by Phil Wheeler <w7ox@mindspring.com>
37) [49112] Re: DSW-20 picture
    by Phil Wheeler <w7ox@mindspring.com>
38) [49113] Re: F5IN
    by Phil Wheeler <w7ox@mindspring.com>
39) [49114] RE: What Kit to Build
    by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
40) [49115] Holiday QSOs
    by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
41) [49116] Re: Qrp mod for Ten Tec Scout
    by "dor" <elbc@pivot.net>
42) [49117] RE: Capacitance
    by "Richard Hensel" <rrhensel@sprintmail.com>
43) [49118] Re: USB/LSB in CW

    by Zack Lau <zlau@arrl.org>
44) [49119] Re: USB/LSB on CW
    by Zack Lau <zlau@arrl.org>
45) [49120] Re: [Q] telescoping whip with a BNC connector???
    by "Mike Yetsko" <myetsko@insydesw.com>
46) [49121] [Fwd: September news]
    by Laura A Fisher <wlfisher@bellatlantic.net>
47) [49122] Re: [Q] telescoping whip with a BNC connector???
    by Phil Wheeler <w7ox@mindspring.com>
48) [49123] FT: QRP Books & c.
    by Brian Short <bshort@speedchoice.com>
49) [49124] Capacitance
    by Robert P Engelman <rengelwb8uoj@juno.com>
50) [49125] Re: [Q] telescoping whip with a BNC connector???
    by Arjen Raateland <Arjen.Raateland@vyh.fi>
51) [49126] OT: Loop antenna calculations
    by "George Goodroe" <goodroe@worldnet.att.net>
52) [49127] Re: [Q] telescoping whip with a BNC connector???
    by Phil Wheeler <w7ox@mindspring.com>
53) [49128] RE: Loop antenna calculations
    by Dave Barrett <DBarrett@creo.com>
54) [49129] QRP /130
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
55) [49130] Milliwatt WAS - getting close now
    by Jim Hale <kj5tf@yahoo.com>
56) [49131] FS: AEA Isoloop Antenna
    by "Jack Oakland, CA" <w6abc@yahoo.com>
57) [49132] Lightening and Static Protection of Verticals
    by "Dan W. Dooley" <dandooley@pipeline.com>
58) [49133] Atlas 210X
    by "Dan W. Dooley" <dandooley@pipeline.com>
59) [49134] Addendum to What Kit Should I Build #6
    by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
60) [49135] RE: Atlas 210X
    by "Alex Mendelsohn" <ai2q@ispchannel.com>
61) [49136] Re: Lightening and Static Protection of Verticals
    by Chris Cartwright Sr <ccart@phideaux.com>
62) [49137] RE: Lightening and Static Protection of Verticals
    by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
63) [49138] FS: Wilderness Radio NC40A
    by Allan G Taylor <k7gt@arrl.net>
64) [49139] Tektronix 465B part
    by Pat Byers <pbyers@rttinc.com>
65) [49140] Gap Titan Antenna
    by Davewb4@aol.com
66) [49141] WTB:  MFJ 418 code tutor
    by "Brockwell, Stephen E." <brockwse@fssec.army.mil>
67) [49142] FS: MX Sprint Keyer/Paddle

by Roger Hightower <n7kt@earthlink.net>
68) [49143] Re: Capacitance
by "George T. Baker" <w5yr@swbell.net>
69) [49144] AR QRP 40m Net Results
by Robsparks@aol.com
70) [49145] Re: USB or LSB?
by Monte Stark <ku7y@dri.edu>
71) [49146] Re: DSW-20 picture
by Monte Stark <ku7y@dri.edu>
72) [49147] Re: QRP /130
by Brian Murrey <brian@iquest.net>
73) [49148] The 20-M Wonderpole
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
74) [49149] Re: What Kit to Build #6 (with better alignment of article I hope)
by Michael McShan <William-McShan@ouhsc.edu>
75) [49150] WTB:  Hallicrafters TO Keyer
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
76) [49151] RE: My NC20 is a DX machine!!
by "Kory Hamzeh" <kory@avatar.com>
77) [49152] Code Speed Question..
by "Phinizy, William" <wphinizy@filenet.com>
78) [49153] RE: USB or LSB?
by "Kory Hamzeh" <kory@avatar.com>
79) [49154] qrp/130
by N1ODL@aol.com
80) [49155] Re: HTML Editor
by "Tony Fishpool" <g4wif@btinternet.com>
81) [49156] Re: [48957] Copy of QST article
by Dan Halbert <halbert@bbn.com>
82) [49157] AEA Isoloop is sold.
by "Jack Oakland, CA" <w6abc@yahoo.com>
83) [49158] RE: Antennas, CFA for transmitting
by "rohre" <rohre@arlut.utexas.edu>
84) [49159] Re: HTML Editor
by "Nathan Gordon, KF9LI" <nathang@bigfoot.com>
85) [49160] Re: USB or LSB?
by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
86) [49161] Re: MFJ 418 code tutor
by "Mark Hogan" <mhogan@email.msn.com>
87) [49162] Re: USB or LSB?
by Bob Patten <n4bp@bc.seflin.org>
88) [49163] PCB software?
by "Dan Walker" <DWalker@sciconsd.com>
89) [49164] USB/LSB
by "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
90) [49165] Elecraft Update - K2s now shipping from stock (finally!)
by Eric Swartz WA6HHQ - Elecraft <erics@elecraft.com>
91) [49166] Re: PCB software?

    by "Nathan Gordon, KF9LI" <nathang@bigfoot.com>
 92) [49167] Re: Lightning Protection Info
    by JPD <jdanter@mail.i-america.net>
 93) [49168] Re: OT: HTML Editor
    by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
 94) [49169] Fwd: Thursday's Classroom explores the Sun's sizzling corona
    by "David P. Drake" <dpd@dtpax2.ncifcrf.gov>
 95) [49170] Re: qrp/130
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
 96) [49171] Re: Fw: Javascript source code - moon phases
    by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
 97) [49172] Amateur Radio, QRP and BSA
    by Paul Antoniewicz <pja@sofsol.com>
 98) [49173] Which Kit to Build?  #7 The All Band Super Kits
    by ki6ds@dpol.k12.ca.us (Hendricks, Doug)

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Date: Wed, 1 Sep 1999 17:17:48 -0500
From: "Bob Helms" <af5z@inetport.com>
To: "Ten-Tec EMAIL Reflector" <TenTec@contesting.com>
Cc: "QRP-L Reflector" <qrp-l@lehigh.edu>
Subject: [49076] CW Sprint - 7:00 to 11:00 PM - Sat, Sept 4th
Message-ID: <199909012308.SAA01153@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Try this four-hour CW contest to improve your code and contesting
skills.

See:

http://web.jzap.com/n6tr/sprint.html

for the rules and details from a master at doing it well!

73,
Bob Helms, AF5Z
af5z@inetport.com

---

Date: Wed, 01 Sep 1999 18:14:14 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: kc5tja@dolphin.openprojects.net, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>

Subject: [49077] Re: USB or LSB?
Message-ID: <002d01bef4cf$b5998f60$3237a497@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

> I beg to differ.  I have an SW-40+ transceiver that uses LSB tuning for its
> operation.  If Kory happens to be in USB mode when he hears me issuing CQs,
> and responds, I will never be able to hear him!

I hate to continue this endless thread again but it will not matter what side of the carrier he is listening to if you come close to properly zero beating your transmit frequencies when operating CW.  Generally, as long as neither one of you have your RIT offset you will hear him if he tunes to hear you.  USB/LSB selection is irrelevant.  If it is relevant you have something out of whack.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
http://home.swbell.net/aa5tb

---

Date: Wed, 1 Sep 1999 18:32:31 -0500
From: tedkell@juno.com
To: qrp-l@Lehigh.EDU
Subject: [49078] RS Nibbler
Message-ID: <19990901.183250.-3966727.0.tedkell@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Has anyone an opinion on the Radio Shack nibbler?  They are cheap.  I don't know if they are any good.  Do they produce a chip big enough for the 2N2/40 construction method?

Ted Kell
KC5CUW

_____
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Try Juno Web: http://dl.www.juno.com/dynoget/tagj.

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Date: Wed,  1 Sep 99 16:36:11 -0800
From: Anthony Felino <anthony@pacinfosb.com>
To: kc5tja@dolphin.openprojects.net, qrp-l@Lehigh.EDU
Subject: [49079] Re: QRP-L digest 1566
Message-ID: <Chameleon.936229136.anthony@anthony>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Then one of you has a broken radio.



you wrote:

I beg to differ. I have an SW-40+ transceiver that uses LSB tuning for its
operation. If Kory happens to be in USB mode when he hears me issuing CQs,
and responds, I will never be able to hear him!

WN6Q
-----------------------------------------------------------
Anthony Felino, Pacific Information Design
email: anthony@pacinfosb.com, afelino@eng.delcoelect.com
telephone: (805) 730 1565, x25
fax:       (805) 730 1569
-----------------------------------------------------------



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Date: Wed, 01 Sep 1999 17:06:13 -0700
From: Scott Gregson - KC7MAS <emtech@steadynet.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [49080] Battery charger chip?
Message-ID: <37CDBF75.3BEA28E1@steadynet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I thought that I saw a thread about a new (newer) battery charging
chip.  I thought it was on the list.  I searched my new mail folder and
the trash mail folder, but could not find anything.  Did/does somebody
recall this thread, and if so what was the chip, and was there some sort
of info on the web somewhere about it?

--
Scott Gregson - KC7MAS
emtech@steadynet.com
http://emtech.steadynet.com
++++++++++++++++++
Scott Gregson Co. / Emtech / CFC
1127 Poindexter Ave W
Bremerton, WA 98312

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Date: Wed, 1 Sep 1999 20:06:31 -0400
From: "S. M. Whitehouse" <ke4yh@gte.net>
To: <grudin@vdbs.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49081] Re: USB/LSB in CW
Message-ID: <00f801bef4d7$0acb6380$642c6018@Stew.gte.net>

>I'll throw a monkey wrench into the mix.  In CW there are no sidebands,
>there is just the carrier.
>
Actually there are sidebands generated with CW. They are a function of the keying speed. CW is OOK (on-off keying) which is a form of amplitude modulation. These Sidebands will normally be eliminated in the transmitter during hetrodyning, mixing, filtering and/or shaping. Couple a keyed RF oscillator directly to an antenna and you'll find them. In a poorly designed transmitter these sidebands can contribute to key clicks, thumps and a generally bad sounding signal.

>I beg to differ.  I have an SW-40+ transceiver that uses LSB tuning for its
>operation.  If Kory happens to be in USB mode when he hears me issuing CQs,
>and responds, I will never be able to hear him!
>
If, during a QSO, both transmitters are on the same frequency then it doesn't matter which side of the signal the receiver is tuned or what the receive offset is. The key here is that the transmitters are sending on the same frequency!

72
Stew  KE4YH
Dunedin, Florida

ke4yh@arrl.net
http://home1.gte.net/ke4yh/

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Date: Thu, 02 Sep 1999 00:08:20 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-l@lehigh.edu
Subject: [49082] ARDF site 80 Meter DF Project.
Message-ID: <37CDBFF4.4260@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I found a nice article, build your own 80 meter
DF unit.  It is, however, in German.  Excellent mix
of images, etc. is of considerable help regardless
if one understands the text.

Look for the Junior 80 project at the bottom under
the Technical heading.

http://www.darc.de/referate/ardf/content.htm

P.S.  Will be awhile before Van is registered... Am in
DMV hell due to old lien Sale mistake on one character
of the VIN....  Gasp....
72/Ed we6w, still bicycle bound.
--
-Ed  AR Millennium Q's=>1100/2000  QRP-L#1068 Old NC#2227
72, Ed WE6W, A-1 OP; http://www.qsl.net/we6w  Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275

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Date: Wed, 01 Sep 1999 17:20:56 -0700
From: Jeff Grudin <grudin@vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>, n6kr@elecraft.com
Subject: [49083] USB/LSB on CW
Message-ID: <37CDC2E8.850964EE@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I think this is important because it appears many of us do not know what
the truth is.  I would appreciate it if someone who really knows would
let me and the rest of the list if this is correct.

If you look at the schematic of a transceiver, I am looking at the NC40, there are 3 mixers.

In the transmit chain, there is one which mixes the VFO signal with an IF to become the transmitted signal frequency. There is no provision for Upper or Lower sideband and there is no offset.

The receiver has 2 mixers, the first mixes the incoming signal with the VFO to become the IF. This is filtered and then mixed with the BFO which removes the IF + or - the offset producing the audio tone you hear.

CW and CW reverse are just the received frequency + or - the offset. You always transmit on the same frequency whether you are on CW or CW REV. There are no sidebands. It does not matter if one of you is on CW and the other is on CW REV (Or CW lower and upper) as the transmitted frequency is the same.

Side band has a mixer which mixes the carrier with an audio signal producing the carrier, the carrier + audio, and the carrier - audio. These are the sidebands and they don't exist in CW. The filters in the the transmitter then remove the carrier and one of the sidebands producing single sideband signal.

I am pretty sure that this is correct, but I am not an engineer. So let's ask the experts on the list for some clarification.

--
73 de AC6KW <mailto:grudin@vdbs.com>
Jeff Grudin, DVM Web Add: http://www.vdbs.com/~grudin
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

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Date: Wed, 1 Sep 1999 20:29:41 -0400
From: "Jim Marciniak" <n1rui@together.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49084] Old Knight Kit Question
Message-ID: <015501bef4da$53618360$5d0bfea9@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to the half-dozen or so responses I got - every one voted for the 1N34 or 1N34A.

I figured germanium, but I was surprised to hear I could get them at Radio Shack!

Geez, I LOVE this place!

72 & 73,

- Jim

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Date: Wed, 1 Sep 1999 17:33:23 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: we6w@qsl.net, qrp-l@lehigh.edu
Subject: [49085] CFA patent access at IBM patent site
Message-ID: <Pine.LNX.4.04.9909011709170.21494-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ed, I noticed the web page you listed for the CFA has a patent number listed: 5155495. I always use the IBM patent database web site to look up patents after about 1971 or so. It's a good thing to bookmark.

http://www.patents.ibm.com/

In my opinion, a patent is a public disclosure for the purpose of registering a protected interest in an invention. Certaintly one may learn about things by reading them. These days, a working patent model is not required in order to make a patent application, so that any controversy related to the CFA, for example, may not be necessarily 'proven' by the existence of a patent. I have seen a patent related to the arrangement of different sized separate wires comprising the conductors of extra-super-duper-heavy-duty-etc. speaker wire. Needless to say, its nontechnical arguement related to lower distortion was lost on me. If you use such wire, it's great stuff, however... Thus YMMV.
73, Jeff KD6MNP

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Date: Wed, 1 Sep 1999 19:46:34 -0500 (CDT)
From: ac5ez@webtv.net (Larry B)
To: qrp-l@lehigh.EDU
Subject: [49086] OT
Message-ID: <9796-37CDC8EA-3101@postoffice-112.iap.bryant.webtv.net>

Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Received a qsl card today from Formosa which was the 100th confirmed country for Dxcc. After 27+ years of casual dabbling in the Dx arena with a 16 ft vertical and a dipole with 90 watts or less , it finally ended. It was a good day.
K1zw

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Date: 1 Sep 1999 19:47:19 -0500
From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-l@lehigh.edu
Subject: [49087] Antennas, CFA for transmitting
Message-ID: <n1275907210.11063@msmailgw1.arlut.utexas.edu>

Folks,
A couple points about the CFA antenna, Crossed Field Array.

I have been doing a LOT of handbook reading after reading the wild claims for this design. It seems too good to be true---so I have gone back to the basics by Kraus, and the amateur antenna handbooks, and texts such as Terman.

Reputable scientists in the antenna field like Jack Belrose, (who writes for QEX among others), find this design does not model. Its claimed performance in Transmitting (ONLY) (which is ALL the designer was claiming ), may be the result of radiation from its own feedline or nearby resonant structures. Questions raised by the antenna experts about this have not been satisfactorily answered by the designers.

There now is a criticism of NBA (National Broadcasters Assoc.) for publishing a paper about the CFA for Broadcast transmitting in their technical session.

One QRP author who raised questions about the CFA working at all was threatened by proponents with legal action if he did not retract his statement in a British magazine, and he has not, and no action has been filed to date, I have heard. Not very scholarly a topic it seems!

Their patented idea is to create an electric field, with one electrode, and a magnetic field with another, and (magically) inject them at the same point in space to create a crossed field, with no reactive field seems a stretch. How do they prevent the electric field from having a magnetic field surrounding its electrode? The same for the magnetic electrode? And if it has no reactive field, how come they say to tune it up with a field strength meter

which responds to reactive fields?  There are just a lot of inconsistencies in what is published so far.

The publication of a flawed phase shift network (by  admission of the proponents of this design), seems to muddy the waters, WHY DO THAT?
I believe you can buy a subscription to the online magazine, and get the corrected phase shifter information!???!!

Concealment of the true design serves no valid purpose unless they have something to hide or money to make----

But my main finding, is that the originators never claim this antenna is truely reciprocal and can be used to receive.  It obviously lacks much capture area, and should therefore be a poor performer, in light of years of receive antenna theory.   This alone would make it a poor ham antenna.

Yet, I have heard a testimonial of one working on a ham band, but not the band published in an on line antenna magazine.  Nor, was it made from non magnetic material, but from an empty can, which is magnetic and might have a bearing on this version and its efficiency.  It would be a higher loss material than usual copper and aluminum elements.  But, the user has made QSOs.  Now, some have made QSOs on other minimalist antennas, such as the Isotron, which seems little more than a coil and capacitor in parallel, albeit of a size that surely radiates some power, and receives a little.

Thus, anything is possible, even QSO s on a dummy load, (and that will have a swr of 1:1!)

However, if you are running QRP, do you really want a minimal antenna as well?  Don't you want as much resonant conductor up there in the air as you can, to more easily hear the DX?  And with the CFA being a vertical structure in part, what about all the neighborhood AC line noise you will hear?  And for mobile, you will have ignition and computer hash of the vehicle to surmount.

I am thinking of trying to repeat the one set up I have heard apparently had some QSOs, but the exact details of the phase shift networks and how you connect them to the electrodes, without the connections themselves becoming conventional radiators is still unclear.  I would think you want to split a source of RF, (your transmit signal), into two paths and phase shift one 90 degrees from the other.  If the networks are not shielded, it would seem they become part of the antenna, thus increasing the effective area.  On the other hand, the more I read basic antenna theory, the more hand waving the CFA inventors seem to be doing.  Should I waste time with something with little chance of working well to a ham's needs or should I devote my antenna efforts to things like fitting more antenna into a small lot, improving RF ground, and other efforts well known to improve antenna results?  And the same could be said for mobile use, there are demonstrated successes with small loops, which could be placed on a mobile horizontally above the roof with far less

mechanical complexity to the CFA designs seen to date.

I guess I am leaning to the school of building antennas with real chances of working, or the "measure twice, cut once" school!

72, and always interested if someone has cut through the haze of obfuscation about the CFA design,
Stuart K5KVH

---

Date: Wed, 1 Sep 1999 19:47:28 -0500
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: <aweiss@usd.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49088] Re: Proximity Switch Keyer
Message-ID: <003801bef4dc$bca27b20$537054d8@big>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think all these high tech keyer ideas are really neat, but I sorta think my fingers expect the action to start _exactly_ when they feel the contacts make.  With some of these methods, that ain't gonna happen and it's gonna feel funny.  I also wouldn't like it if I couldn't  _gently_  touch the paddle without setting off some dits and dahs.   But hey, invent one and prove me wrong!

The worst keyer I've had was the old single paddle Heathkit that used microswitches instead of plain contacts.  Sometimes those switches would bounce and you'd get two for the price of one.

One field day, I drank a few too many beers and left that keyer out in the rain on the landing of a fire tower all night.  That was the best thing I could have done with it.

72,

Nick, WA5BDU

---

Date: Wed, 01 Sep 1999 20:51:53 -0400

From: Bob Edwards <w4ed@gis.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [49089] BUBBA'99
Message-ID: <37CDCA29.1A7F9C48@gis.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
                Numbers first;
15m   7      4                        (NQ7RP)
20m  28     15                 92F    (NQ7RP)
40m   3      3                 50%
     ----  ---     5w   Outs.
     38  x  21   x  1  x  2  x 100  + 20,000 = 179,600
```

How's come every time I tried 10m, every one else didn't ...bummer...
Almost, but not quite as bad as a misdirected_OpenGL_tex_attribute_ptr.

Next time, when on pause/break, I'll park the K2 RX scan on 28.060.

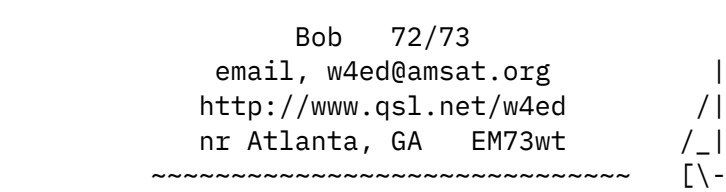
40m could have used some more activity too, at least here in ATL.

Always enjoy QRP contacts with AB7TT, KL7H, W1VT, AE4IC, AD6A, +30 more.
Good copy on both KL7H & AL7FS in ATL, but AL7FS couldn't hear me.

W7TAO on 15m - almost - but nasty QRM.  I second the emotion to spread
out on 15m ,,, we (W7TAO) had a good one going but QRM killed the last half.

However, DQ the TX guys with an in-ground pool full of Mexican liquid coolant,
that's way way too much fun for us serious'sweating'bug-bitten'QRP'techno'types.
Could even be confused with having a real life.  ;)

Fun event, hot,  enjoyed working familiar ops  &  enjoyed using the K2.
--




---

Date: Wed, 1 Sep 1999 19:46:58 -0600
From: "Roy" <ab7ce@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49090] TEN TEC ARGONUAT 515: SOLD
Message-ID: <00c301bef4e5$0d60fa20$99c7fad0@pavilion>

The Ten tec 515 is sold. TNX for all the interest. Roy AB7CE

---

Date: Wed, 1 Sep 1999 21:15:15 -0500
From: "Bob Helms" <af5z@inetport.com>
To: <JIM-EK@worldnet.att.net>
Cc: "QRP-L Reflector" <qrp-l@lehigh.edu>
Subject: [49091] OT: 2 + 2 <> 4
Message-ID: <199909020219.VAA15716@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Jim,

Good luck on your ham license testing.  From your question it seems you are paying attention to details which is good.

The two formulas for calculating wavelength are both CORRECT!

The formula for a full-wave length IN AIR is generally accepted to be:

Lambda (in feet) = 984 / freq in MHz

Radio waves travel at the speed of light in air.  This defines the velocity factor of air as 1.0.

The formula for a full-wave length IN WIRE is generally accepted to be:

Lambda (in feet) = (984 / frequency in MHz) X .95

This can be simplified to approximately:

Lambda (in feet) = 936 / frequency in MHz

The ".95" in the formula above reflects an average velocity factor or wave propagation speed IN A SMALL WIRE SUCH AS IS USED IN ANTENNAS is 95% of the speed that a radio wave travels in AIR.

Early ARRL Handbooks and/or Antenna Books provided a chart graphing the velocity factor as compared to wire gauge (or diameter).

Obviously all the above formulas can be modified to find a half-wave length by dividing the 984 or 936 by 2.

In the practical world, the height and surrounding objects around an antenna will often require 'trimming' the antenna by adjusting its length by plus or minus 3 to 5%.  I'm careful to keep both halves of a center-fed antenna the same physical length but I cut them slightly long and either cut or fold back the ends to bring it up to the desired resonant frequency WITH THE ANTENNA LOCATED AT ITS FINAL POSITION.

The easy way to do this is to find the frequency of lowest VSWR and calculate the theoretical length for the ACTUAL antenna.  I then calculate the theoretical length for THE DESIRED FREQUENCY.  I then subtract the difference in physical lengths and cut (to increase the resonant frequency) or add that amount (to lower the resonant frequency).

I hope this was clear - - Ask questions if needed.

73,
Bob Helms, AF5Z
af5z@inetport.com

-    -    -    - ORIGINAL MESSAGE BELOW

From: Jim Ek
To: "'Low Power Amateur Radio'" <qrp-l@Lehigh.EDU>
Subject: [49041] OT:  2+2 <> 4

I'm am going to be taking my technician and written novice exams tomorrow
night and I am finishing up on the reading.  But it appears I've found an
inconsistency.

Page 9-2 of the "Now Your Talking" text.  List formula for wavelength as

     Lambda (in feet) = 984/f(in MHz)

Page 9-9 of text list formula for 1/2 wavelength as

     1/2 Lambda (in feet) = 468/f(in MHz)

Obviously 468 x 2 = 936 not 984.

Can someone explain why this is, or is it just a printing error in
the
book?

Thanks,
Jim Ek

---

Date: Wed, 1 Sep 1999 22:22:48 -0400
From: "Larry Przyborowski" <lprzyski@erols.com>
To: <edkess@epix.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49092] Re: 2n4416a Pinout?
Message-ID: <01cf01bef4ea$0f9ca000$3886accf@k3peg>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ed, the 4416's pinout is as follows:

Hold the device with its bottom (leads) up and the tab pointing towards you.

reading clockwise from the tab...

pin to left of tab is the source
next pin clockwise is the drain
next pin clockwise is the gate
pin to right of tab is the case connection.

above is per ARRL HB, 1983 ed.

72 de Larry - K3PEG -.-

---

Date: Wed, 1 Sep 1999 20:13:06 -0700
From: Bob Nielsen <nielsen@primenet.com>
To: Scott Gregson - KC7MAS <emtech@steadynet.com>
Cc: qrp-l@lehigh.edu
Subject: [49093] Re: Battery charger chip?
Message-ID: <19990901201306.F2343@bob.localnet>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Scott,

I found two threads, one about the MAX712 and the other regarding the
Unitrode UC3906.

Bob

On Wed, Sep 01, 1999 at 05:06:13PM -0700, Scott Gregson - KC7MAS wrote:
> I thought that I saw a thread about a new (newer) battery charging
> chip.  I thought it was on the list.  I searched my new mail folder and
> the trash mail folder, but could not find anything.  Did/does somebody
> recall this thread, and if so what was the chip, and was there some sort
> of info on the web somewhere about it?
> --
> Scott Gregson - KC7MAS
> emtech@steadynet.com
> http://emtech.steadynet.com
> ++++++++++++++++++
> Scott Gregson Co. / Emtech / CFC
> 1127 Poindexter Ave W
> Bremerton, WA 98312

--
Bob Nielsen                 Internet: nielsen@primenet.com
Tucson, AZ                  AMPRnet:  w6swe@w6swe.ampr.org
DM42nh                      http://www.primenet.com/~nielsen

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Date: Wed, 1 Sep 1999 23:23:33 -0400
From: mailbox-gaskins <pgaskin@imcnet.net>
To: qrp-l@lehigh.edu
Cc: pgaskin@imcnet.net
Subject: [49094] Qrp mod for Ten Tec Scout
Message-ID: <199909020323.XAA13393@ns1.imcnet.net>

  Dear Friends,
   I am about to inherit a Ten Tec Scout 555.
   I know this is a 50w rig and the Argo is no longer available
 although,both rigs are basically identical, the Argo is minus the
 final amplifier.
   Is there a simple mod to convert the 555 to a 556?I haven't been
 able to find anything on the internet yet.
   I am very excited about this rig as I miss my Corsair 2 and Ten
 Tec's qsk and "perfect" cw note(my opinion).
   Thanks for the bandwidth
   Pete

N2PG

---

Date: Wed, 1 Sep 1999 22:22:19 -0500
From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [49095] 2N22/40
Message-ID: <008b01bef4f2$5fcd36e0$d11cdfd1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang,  I just got my pcboard cut and the sections marked off for the
2N22/40 rig, I have a couple of questions.

1. What should I clean the board with before I start gluing on my pads?

2.  My nibbler makes pads that are 1/4 inch long and 1/8 inch wide, are
these
too small or will they work??

Thank you all

73's

Charles (KC5DXQ)

---

Date: Wed, 1 Sep 1999 20:34:20 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: <qrp-l@lehigh.edu>
Subject: [49096] My NC20 is a DX machine!!
Message-ID: <003101bef4f4$0b1e8660$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My second NC20 contact was XE2EA who gave me a 589. He's about 2500 miles
away. My first NC20 contact was UA0FI. Do I need to get another rig just for
state side contacts ?!?! :-)

Kory
AC6RN

---

Date: Thu, 2 Sep 1999 00:06:32 EDT
From: DOCROCK1T@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [49097] Yet another usable enclosure...
Message-ID: <63254ed1.24ff51c8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hello all...

There may have already been discussion on this item, but I found another good enclosure for small QRP projects. It is a small lidded-tin in which Whitman's Sampler chocolates are packaged. It is similar to an Altoids or Dilbert Mints container. As purchased, each tin contains 4 chocolate pieces in the customary little brown corrigated paper cups.

The OD size is 2.75" x 3.5" x 1"...so, it is very adequate for Pixie 2s, etc.

You can find these at card shops, candy shops, or the older non-chain drug stores.

73/2

Rick...KB7MPG

---

Date: Thu, 2 Sep 1999 00:07:48 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <cdhamel@pdq.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49098] RE: 2N22/40
Message-ID: <000101bef4f8$b7995a60$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Charles:

Your pads sound a tad large. I think mine measured about 1/4-inch x 3/32nds

or so. But that's not too critical. Perhaps you can "measure" the size of the nibbles you take to make 'em a little bit narrower. The length you mention seems fine.

I buffed my circuit boards with fine steel wool BEFORE starting any work, then cleaned 'em down with isopropyl alcohol. Don't do this on your workbench though; you'll wind up with almost undetectable steel wool bits everywhere.

The Crazy Glue sticks sticks like crazy and I found I could solder immediately.

GL es feel free to "fudge" the layout as you go. My layout doesn't follow the one published at all. It's in two boards, as that's all I had (until later, when Sergio squared me away). What I noticed is that as I got better at laying out the pads and the circuit, i could more densely pack the various devices. It was also easier to maintain symmetry at the balanced mixers.

So, start building the T/R switch and audio stages first. By the time you get to the IF strip and RF stages, you'll likely be more comfortable at making things more densely packed.

The rig is a super performer. Wait until you hear how nicely the receiver plays!

Vy 73, AI2Q, Alex in Kennebunk, Maine  QRP-L 687.

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Charles Hamel
> Sent: Wednesday, September 01, 1999 11:22 PM
> To: Low Power Amateur Radio Discussion
> Subject: 2N22/40
>
>
> Hi gang,  I just got my pcboard cut and the sections marked off for the
> 2N22/40 rig, I have a couple of questions.
>
> 1. What should I clean the board with before I start gluing on my pads?
>
> 2.  My nibbler makes pads that are 1/4 inch long and 1/8 inch wide, are
> these
> too small or will they work??
>
> Thank you all

>
> 73's
>
> Charles (KC5DXQ)
>
>
>

---

Date: Wed, 1 Sep 1999 21:59:10 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <k5oi@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49099] Re: F5IN
Message-ID: <01cb01bef4f8$cd34d110$03e498cd@spock>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Tim Pettibone <k5oi@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Tuesday, August 31, 1999 10:41 PM
Subject: F5IN

Hi Tim,

>Got an unsolicited QSL from F5IN, Mike (Michel), for a QSO back in May on
>20m.  I signed /QRP and Mike made a nice comment about the sigs/QRP.  He was
>running DRAKE and Heath SB220 to a 5 element yagi.  5 watts to a zepp up 18'
>on this end - still amazes me.  For Mike to fill out the QSL, and pay to
>send it direct is even more amazing!  Really nice guy.

There's one thing you can say about Mike -- he loves to QSL! I've worked
3 or 4 times on the low end of 40, and every time we've talked he has sent
a card! I have to agree with you 100% that Mike is a great guy and a
great ham, Tim!

BTW, another DX ham that was just a few KC's away was Yuri, 4K1F,
operating from Antarctica. Does anyone know if he's still on the air from
there are from home?

72/73,

---
Randy Jouett, AB5NI

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Date: Thu, 2 Sep 1999 00:30:49 -0700
From: Robert P Engelman <rengelwb8uoj@juno.com>
To: qrp-l@lehigh.EDU
Subject: [49100] Capacitance
Message-ID: <19990902.003052.-89665.0.rengelwb8uoj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Howdy all,

Can any body answer for me a simple, dumb question??  How big / small is a micro farad and pico farad ?.  Have been doing a bit of tinkering down in the shack, and couldn't remember which was smaller or bigger, and how many zeros went where.  My memory thinks that the PF is millionth and MF is thousandth ?? though I'm not sure....

As always, any comments would be appreciated

Thanks,

Bob WB8UOJ

_____________________________________________________________
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Date: Thu, 02 Sep 1999 00:32:36 -0400
From: Bob Hirsch <bobh@p3.net>
To: qrp-l@lehigh.edu
Subject: [49101] paddles for sale
Message-ID: <3.0.6.32.19990902003236.00922590@mail.p3.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm selling my:

  --  WBL V22 iambic paddles.  They are in excellent condition.  I'll ship for $115.

--  Original Norcal (K8FF) paddle kit, unassembled.  I'll ship for $30.

Please reply direct e/mail.

---

Date: Thu, 2 Sep 1999 00:41:06 -0400
From: "Al Gritzmacher" <ae2t@localnet.com>
To: n4xy@arrl.net
Cc: qrp-l@Lehigh.EDU
Subject: [49102] OT: HTML Editor
Message-ID: <199909020440.AAA16319@mx2.localnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi Ed,

Front Page is an absolutely horrible HTML editor. It's amazing that so many people use it or actually pay money for it. It generates HTML that is total trash.

I have no experience with Dreamweaver, so I won't comment in it.

A simple (you can use it without reading tons of manuals.) WYSIWYG HTML editor, that is free for the downloading is AOL Press. ( http://www.aolpress.com ) For basic web pages, it's more than sufficient and it creates clean, easily edited HTML code.

The main drawback I found with it is it's upload feature for putting the finished page on a server only works with AOL's server. You can use a seperate FTP client easily, however. I usually use WS-FTP.

You probably only want to make a simple personal page, not make a career out of it, but you'd be better served spending the time with a good book on HTML rather than wasting it learning to use Front Page.

With a little HTML knowledge, you can then use a good, professional-quality HTML editor and work at the code-level and get exactly what you want, not Front Page's way of doing it.

I have been using Allaire HomeSite for several years and really like
it. The latest version has besides the text-based editor and preview
view, something called "Design View" which is basically a
WYSIWYG editor. It does almost anything else you would want,
HTML validation, link checking, project management, uploads, etc.
and costs less than $100. (I don't recall the exact price, I just got
an upgrade to the latest version, 4.01, for less than $30)

That's my two-cents on HTML editors!

72,

Al AE2T


Ed, N4XY wrote:
>
>I am looking for a relatively simple Web Page Designer. I HAVE
MS Front Page
>2000 & Dreamweaver 2... but neither one is intuitive enough to sit
down,
>make a banner, add some buttons, link 'em to the next page by
category, etc.
>etc. At least, they don't seem that way to me. I've made some
pages, but
>always seem to bog down trying to find buttons, get 'em to work...
etc. I am
>accustomed to being able to sit down and work my way into
operation of a
>given program... but so far, both of these have resisted my efforts.
I have
>made some progress with both... but-in frustration-I thought I
would get a
>sampling of what everybody recommends.
>
>OK... admittedly I haven't done either one's tutorials... and if that's
what
>it takes, I'll do it. But that's not what I usually have to do-and so I
>wonder if there is a simpler, but useful program?
>
>P.S. Please excuse the BW
>
>72 / 73  Ed   N4XY                Elecraft K2 sn: 000057
>_____________________________________
>Ed Tanton   N4XY                    EMAIL: n4xy@arrl.net


---

The amazing thing about QRP is not how many contacts are
made, but that they are made at all. Every QSO is a
contradiction of conventional wisdom.
72,
Al Gritzmacher, AE2T
QRP-L #1664  QRP-ARCI #9837  K2 #274
ae2t@arrl.net
http://members.localnet.com/~ae2t/
QRP - If you don't try, you'll never know!

------------------------------

Date: Wed, 1 Sep 1999 21:44:05 -0400
From: "Larry Przyborowski" <lprzyski@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49103] Re: Major QRPp Dilemma
Message-ID: <009b01bef4e4$a64345a0$3886accf@k3peg>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No Spring QRPp or Summer QRPp here yet... sigh.

Larry - K3PEG -.-


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Date: Wed, 1 Sep 1999 22:01:11 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Al Gritzmacher <ae2t@localnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49104] Re: OT: HTML Editor
Message-ID: <Pine.GSO.4.10.9909012157580.7941-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'll second what Al has to say about learning HTML....

Second hand info but it comes from a good source. Our
daughter! And we raised her to confess if she was to ever
chop down a cherry tree!

She tried a few "super duper HTML the easy way" programs
and found that she spent more time fixing errors in the
code that she had to spend just writing the code!

So I'd say that if you want to do much HTML programming
just make the investment in time and learn it!

cul,

73, Ron,     SOWP 5545M,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

---

Date: Thu, 02 Sep 1999 01:08:04 -0400
From: Bob Hirsch <bobh@p3.net>
To: qrp-l@lehigh.edu
Subject: [49105] Both sets are spoken for
Message-ID: <3.0.6.32.19990902010804.00904430@mail.p3.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The WBL and K8FF Norcal paddles are spoken for.
That was fast, thanks.

72/73 de Bob, W3CW
New Hope Pennsylvania

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Date: Thu, 2 Sep 1999 01:28:13 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <rengelwb8uoj@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49106] RE: Capacitance
Message-ID: <NBBBJDEEIFDDANGEGHLBCEHEGMAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bob... Ok... here's a few methods to keep things straight.

1. Picofarads are smaller. They're just a "puff". You may recall that a 10pf capacitor is referred to as a "ten puff" cap. Usually, the label for such a cap will either be a 2 digit "10" or (ugh!!) more often: "100" that is referring to all the 1st 2 digits and a (10 to the X) multiplier-or, more

easily remembered: the number of zeroes to the right of your 1st 2 digits: in this case:  NONE! or 10pf.

2. 1000pf = 1 nf (nanofarad) but more likely expressed as... = 0.001 uf (microfarad) Notice they increse (notationally) in threes. If you want to go from pf to nf, you divide by 1000 (which is the same as stepping over 3 places. Since you now know nanofarads are larger than picofarads, then you can infer that it would be a division by 1000, or 3 places LESS.

3. Since 1000pf = 0.001 uf... note that you have used another three places, totalling six. Count 'em. It works. So, 1 pf is 1,000,000 times less capacitance than 1 uf. Of course, the reverse is true, so going from the larger unit (uf or nf) to the smaller unit, you multiply by 1000 (mf > nf or nf > pf.)

4. Finally, I kept getting the nomenclature mixed up... e.g. what is a cap labelled 103. So, what I did to solve that was to pick ONE value, remember THAT one, and work from there. Because-at the time-I was working with a lot of the small black plastic military 0.1uF capacitors (full label: CK05BX104) I chose to keep that capacitor as a 'base' for figuring it out.

OK... if a '104 (CK05BX104etc.) capacitor is a 0.1uf... then a 102 cap would be 2 places less than that: a 0.001uf (or right back to that 1000pf.) A '105 would be a 1.0uf cap, a 101 would be 0.0001uf or 100pf.

The ONE area where it gets squirrelly is certain low value mica, silver mica, and polystyrene caps (with a few disc caps thrown in.) These guys may say 100 and mean 10pf, or 100 and mean 100pf. What has often (but NOT every time) helped is to look for labels like the CK05BX100... which would be a 10pf cap. If the 100 is all by its lonesome (no pf, no CK05, nada) it has a 97-03 chance of being what it says: a 100pf cap.

The bottom line is that if the capacitor has a 2 or 3 digit number (alone with nothing else) it is probably a 'pf' capacitor. If it has the fuller, "CK05etc." label, it is going to have a 3 digit number after the letters; and, that number will have the capacitance represented by the 1st 2 digits, with the 3rd number being the 10s multiplier. That value is in ufd UNLESS it's a 0 or a 1... in which case it's your old friend pf. Lastly, if it simply is labelled: ".01", it means
0.01 ufd. And labelled decimal like that is in uf.

If you are going to be dealing with batches of unknown caps, get a capacity meter of some sort. It'll save you a lot of grief over the years. Marshall Emm at http://www.morsex.com/aade.htm#lcm sells an excellent little kit LC meter, that works great (with 1% typical accuracy!) at $90/kit or $120/assembled.

So... as a summary: 1 pf (puff) is a LOT less than 1 uf. Many capacitors

have their real value printed on them. Use the methods and 'rules' listed above to decode them. Remember that 1000 pf = 1 nf = 0.01uf, and note the (10 to the 3rd) relationship between these labels. If you're going to work with them much, get an LC meter and KNOW what the values are.

If I missed anything, or didn't explain it well, just ask.

72 / 73  Ed   N4XY                Elecraft K2 sn: 000057

_____________________________________
Ed Tanton   N4XY                      EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA  30068-3466      TEL: (770) 971-0436

_____________________________________
INTERESTS:  *CW (99.5%)   *QRP  (QRP-L# 758)
*BoatAnchors     *Test Equipment      *Photography
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
"Begin at the beginning... and go on until you come
 to the end: then stop."

The White Rabbit, from "Alice In Wonderland"
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Webpage:  http://www.qsl.net/n4xy/

---

Date: Thu, 2 Sep 1999 01:37:42 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49107] RE: Capacitance-one OOPS...
Message-ID: <NBBBJDEEIFDDANGEGHLBKEHEGMAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

One oops (besides not being to spell "labeled"):

///snip
Remember that 1000 pf = 1 nf = 0.01uf
///snip

Should say:

Remember that 1000 pf = 1 nf = 0.001uf

72 / 73  Ed  N4XY     email: <n4xy@arrl.net>

---

Date: Thu, 2 Sep 1999 01:53:40 -0400
From: "Mark Bellamy" <mark@intermediatn.net>
To: <qrp-l@Lehigh.EDU>
Subject: [49108] Re: Capacitance
Message-ID: <000f01bef507$82421e60$0100a8c0@intermediatn.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Robert,

Micro is millionths
Micro is * 10^(-6)
So if you had a 10 Microfarad cap, it would
be 10E-6 (.00001) Farads

Pico is trillionths
Pico is * 10^(-12)
So if you had a 10 Picofarad cap, it would
be 10E-12 (.00000000001) Farads

Pico is also know as MicroMicro

btw
Milli is 10^(-3) this is thousandths
Nano is 10^(-9) this is billionths
Fempto is 10^(-15) this is quadrillionths
Atto is 10^(-18) this is quintillionths

Mark, KT4AV
in Kingsport, TN

----- Original Message -----
From: Robert P Engelman <rengelwb8uoj@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Thursday, September 02, 1999 3:30 AM
Subject: Capacitance

> Howdy all,

> Can any body answer for me a simple, dumb question??  How big / small is
> a micro farad and pico farad ?.  Have been doing a bit of tinkering down
> in the shack, and couldn't remember which was smaller or bigger, and how
> many zeros went where.  My memory thinks that the PF is millionth and MF
> is thousandth ?? though I'm not sure....
>
> As always, any comments would be appreciated
>
> Thanks,
>
> Bob WB8UOJ
> _____
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: http://dl.www.juno.com/dynoget/tagj.

---

Date: Wed, 01 Sep 1999 23:01:03 PDT
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [49109] QRP Expedition to Shuksan Arm
Message-ID: <19990902060104.40147.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

QRPers

Packin  to go.  Got crampons. Got ice-axe.  Got median-weight sleeping bag.  Got Whisperlite stove and fuel.  Got O Solo Mio, my one-person tent.  Got the VLF receiver.  (Goin  to a very quiet place, far from the power grid.)  Got the brand new Small Wonder Labs DSW-40.  Got my homebrew iambic paddles made from two light-touch snap action momentary switches.  Got the old KBE, predecessor to the Epiphyte, built by Derry Spittle, VE7QK, himself.  Got a light-weight external speaker for both the DSW-40 and the external keyer so I can legally check into the BC Net on 3729 kHz by holding the mike to the speaker, and keying Morse!  Made light-weight dipoles for 40 and 80 meters today with Budwig HQ-1 center insulators and security alarm wire   need to tune them in the backyard at first light tomorrow.  Got batteries   oodles of batteries.  Got the unpopped popcorn marinating in olive oil for backpack transportation.  Got salt in a tiny saltshaker for the same.  Gotta load each trip with experiments.  That s the culinary one!  Got lotsa suntan stuff, including clown-white for nose, lips and ears.  Got prescription glacier-grade sunglasses. Got a total-coverage no-see-um bug suit for the insect QRM.

Destination:  Shuksan Arm in the Mount Baker Wilderness Area, just west of the North Cascades National Park, with fabulous views of Mt. Shuksan and Mt. Baker.  Got a brand-new 1:24 000 topo map of the area.  It has UTM grids, so it should be great for use with my GPS.

My wife Margaret, KD7CEL, will be carrying her 40-m Novice SST and dipole on her parallel trip to Excelsior Ridge, in the same neighborhood.  She will be accompanying longtime hiking companion, Anne Anthony, an Environmental Education professor at the University of British Columbia.  Anne is a breast cancer survivor.  We had a wonderful barbecue salmon dinner this evening. Anne was giving us a stroke-by-stroke account of her Amazons Abreast competitive dragon-boat crew, which placed second (sigh) in this year s Canadian breast cancer survivor championships.  They trailed the winning boat by 0.4 seconds, or one paddle stroke.  Maybe next year, they should try iambic paddles!  8=)

Anyway, I expect to be active on 40-m CW and LSB below 3800 kHz on Thursday and Friday evenings starting about 1800 Pacific Time.  That s 0100Z Friday and Saturday.  On 80-m, I ll probably be mostly on or about 3764 kHz with the BC QRP net.  On 40-m I have a sked with Margaret at 0300Z for both nights at about 7110 kHz.  Otherwise, I will probably be somewhere around 7040 kHz, depending on activity.  CW is a little more awkward in the wilderness, so I ll be going a bit slower than usual.  Please match my speed or slower.

Looking forward to lots of QSOs, especially with other QRPers.

72, Bruce Prior N7RR in Blaine, WA  -- one of the Mangy Mushers

_____
Get Your Private, Free Email at http://www.hotmail.com

---

Date: Wed, 01 Sep 1999 23:01:06 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: kory@avatar.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49110] Re: My NC20 is a DX machine!!
Message-ID: <37CE12A2.376B7F45@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Kory Hamzeh wrote:
>
> My second NC20 contact was XE2EA who gave me a 589. He's about 2500 miles
> away. My first NC20 contact was UA0FI. Do I need to get another rig just for

> state side contacts ?!?! :-)
>

Yeah, Kory. Get a K2 .. but you will have to use 30 or 40; my first six
contacts on 20m with the K2 were in Europe.

Plan to build a K2 later this month .. or in October; looks like a very
nice radio and a good building experience.

Phil

Phil

---

Date: Wed, 01 Sep 1999 23:24:02 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: kory@avatar.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49111] Re: USB or LSB?
Message-ID: <37CE1802.827B803C@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Kory Hamzeh wrote:
>
> Hi Everyone,
>
> On my Yaesu FT-1000MP, you can select USB or LSB tx/rx in CW mode. The
> user's manuals does not mention anything about this, but I'm wondering what
> is the proper setting for each band?
>

Does not matter.  BTW .. K2 will do the same.

> By the way, the FT-1000MP is great for QRP. You can set the max power to 10
> watts and then use the RF out knob and get your power down to the
> milliwatts.
>

Yes, but in watts per pound or cubic inches, not so good; likely not
easy on batteries, either :-)

Phil

------------------------------

Date: Wed, 01 Sep 1999 23:31:50 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: giamman@rouge.phys.lsu.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49112] Re: DSW-20 picture
Message-ID: <37CE19D6.FF8C64C4@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim Giammanco wrote:
>
> Visit  <http://www.qsl.net/n5ib>  for a picture of an (in my humble
> opinion) unique packaging of the DSW20. Also a link to the USS Kidd Naval
> Memorial.
>
>

Unique, Jim .. but I like the enclosure/box I got from SW just fine!

Phil

------------------------------

Date: Wed, 01 Sep 1999 23:35:00 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: gsurrency@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49113] Re: F5IN
Message-ID: <37CE1A94.F438A169@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Agree .. he was my fourth K2 contact.

Phil

Gary L Surrency wrote:
>
> Mike is a very frequent op on the low end of 20m late at night. I work
> him every time I hear him on, and he always has a very loud signal but he
> does not hesitate to come back to weak QRP folks. Nice guy, to be sure.
>

> 72,
>
> Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)
>
> _____
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: http://dl.www.juno.com/dynoget/tagj.

---

Date: Wed, 01 Sep 1999 22:11:34 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: kory@avatar.com
Cc: qrp-l@lehigh.edu
Subject: [49114] RE: What Kit to Build
Message-ID: <3.0.6.32.19990901221134.008c57e0@clients1.hawaii.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:46 PM 09/01/1999 -0700, you wrote:
>
>Every kit that I have ever build has worked the first time. I have never
>smoked anything. My motto is: check to make sure its the correct part, then

Uh oh.  Shouldn'ta said that ... murphy lives, now the next thing
you build will bust into flames.  Soon as you mention how wonderful
somethin's working that's when it craps out :^).  Ok ok we all know
there really isn't anything magical about these things, it just seems
that way sometimes  :^)  :^)  :^)
--

```
   __
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/ __  /    Insensibly one begins to twist facts to suit theories,
/  (_/ (_<__   Instead of theories to suit facts.
                     -- Sherlock Holmes, "A Scandal in Bohemia"
```

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

---

Date: Thu, 2 Sep 1999 09:43:14 +0100
From: "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
To: "QRP-L" <qrp-l@lehigh.edu>, "GQRP-L" <gqrp@onelist.com>
Subject: [49115] Holiday QSOs
Message-ID: <002d01bef51f$51da39c0$26ef5cc3@prsat0xl>

MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

see http://www.karoo.co.uk/g3ycc/g3mbn.html G3MBN's for his holiday with QRP.
When you have read it, send me your account of your holiday with QRP, trips to that favourite VHF location, whatever, all will be read with interest and be useful QRP fodder.
Thanks
...
Frank G3YCC G QRP 042, G QRP Sales Officer.
QRP web page http://www.karoo.co.uk/g3ycc/
ICQ 47220843

---

Date: Thu, 2 Sep 1999 05:18:19 -0400
From: "dor" <elbc@pivot.net>
To: <pgaskin@imcnet.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49116] Re: Qrp mod for Ten Tec Scout
Message-ID: <007a01bef524$3e853e60$5811a1d0@mine1>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Pete,
I use my Scout all the time for qrp,  There are a couple of approaches you can take,

1. you can simply disconnect the final Amp section by Bipassing it. you have to unplug the coax going from the driver  to the final Amp. (connector T1)and unplug the final amp coax going to the Filters (Connector T2) The plug the coax you pulled from T1 into T2, That will give you about 4 watts out adjustable down to 1 or so watts.
    Also if power consumption is an issue you may want to disconnect the Final amp B+ lead .

2.  The way I did it was to bring the Alc Control out the bottom of the case and inserted a new 10K Linnar taper pot in the bottom cover.. I can adjust the ALC to give me from About 2.5watts to full 50watts . Works great,
    Two drawback, you'll have to drill the ajustment hole in the bottom cover to a slightly bigger size to accomadate the new pot.  And You'll have to leave the Bail on the rig up at all times because the pot shaft protrudes below the feet and to allow you to get your hand under the rig for

adjustment.

3.  you can mount a switch on the back pannel ( I have a freind who used the Swr/Pwr Switch) to switch in the right amount of resistance in place of the Alc Pot.

Good Luck , It's a great little rig.
73 DAVE KC1DI

----- Original Message -----
From: mailbox-gaskins <pgaskin@imcnet.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Wednesday, September 01, 1999 11:23 PM
Subject: Qrp mod for Ten Tec Scout

> Dear Friends,
> I am about to inherit a Ten Tec Scout 555.
> I know this is a 50w rig and the Argo is no longer available
> although,both rigs are basically identical, the Argo is minus the
> final amplifier.
> Is there a simple mod to convert the 555 to a 556?I haven't been
> able to find anything on the internet yet.
> I am very excited about this rig as I miss my Corsair 2 and Ten
> Tec's qsk and "perfect" cw note(my opinion).
> Thanks for the bandwidth
> Pete
> N2PG
>

---

Date: Thu, 2 Sep 1999 08:15:55 -0400
From: "Richard Hensel" <rrhensel@sprintmail.com>
To: <rengelwb8uoj@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49117] RE: Capacitance
Message-ID: <000701bef53c$e8655330$0317e590@nosrrhensel>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

micro = .000001
pico  = .000000000001

In the Olden days we usta call pico farad caps  mickey-micks

for micro-micro farad.  In old schematics you will still find
them listed uuf.

Richard Hensel
SPRINT
rrhensel@sprintmail.com
n8wlc@arrl.net

When you have a hammer in your hand ...
           The whole world looks like a nail.

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
Robert P Engelman
Sent: Thursday, September 02, 1999 3:31 AM
To: Low Power Amateur Radio Discussion
Subject: Capacitance


Howdy all,

Can any body answer for me a simple, dumb question??  How big / small is
a micro farad and pico farad ?.  Have been doing a bit of tinkering down
in the shack, and couldn't remember which was smaller or bigger, and how
many zeros went where.  My memory thinks that the PF is millionth and MF
is thousandth ?? though I'm not sure....

As always, any comments would be appreciated

Thanks,

Bob WB8UOJ

_____
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---

Date: Thu, 02 Sep 1999 08:13:35 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-l@lehigh.edu
Subject: [49118] Re: USB/LSB in CW
Message-ID: <37CE69EF.576C42C@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Keying a carrier on and off produces a wave that varies in amplitude and has
double (upper and lower) sidebands...."  Zack W1VT

---

Date: Thu, 02 Sep 1999 08:21:18 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-l@lehigh.edu
Subject: [49119] Re: USB/LSB on CW
Message-ID: <37CE6BBE.124DD6E@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Which sideband you  receive on is only a problem if someone goes through all the trouble of filtering one of them out.  It is possible to send just the lower
or upper sidebands of a CW signal, but I've never heard such a signal--a challenge for someone out there?  Otherwise, receiving a CW signal on a SSB receiver is just like receiving a DSB signal--you can choose either the lower or upper sidebands for best reception.  One set often has less interference
in crowded band conditions.  73--Zack W1VT

---

Date: Thu, 2 Sep 1999 09:09:19 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <n9vv@mail.hamsnet.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49120] Re: [Q] telescoping whip with a BNC connector???
Message-ID: <004401bef544$689f3c80$9001a8c0@mikey.wn.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Several people have commented on taking their K2 to a club meeting
>to demo it with a "telescoping whip with a BNC connector". Where
>do you find these antennas?
>TNX,
>Ken N9VV

RS sells some of these.  And they are all over at Hamfest.  I don't see many of these kinds of things in ads, probably because no one would want to waste the ad space on something like this.

But I have a personal admonishment on these.

I had one I bought for my Kenwood TR-2400 years ago.  It worked, better than the rubber duck, but that's about all I could say.  In fact, it worked best when it was extended about 4 or 5 of the sections as opposed to fully extended.

But two things were really bad.  First, the center pin of the BNC broke off.  And NO WAY could I get that out of the jack on my Kenwood.  I ended up replacing the BNC jack on the radio.  And I wasn't the only one this happened to.  Same thing happened to a friend with his HT.

The other bad thing is long antennas put one HECK of a stress on the BNC itself.  ICOMs for example on some of their radios have a chassis that does NOT come acrosss the top.  To mount the BNC they had a small metal "L" bracket that was attached to the side of the chassis with
two conical head screws.  Put stress on this, and in a short time the whole bracket comes loose causing an intermittent ground.  It won't totally disconnect however, as there isn't enough room physically.  But what happens with enough flexing is the antenna center connection from the back of the BNC to the main pc board breaks.

My recomendation is to NEVER use these things on an HT.  As to other rigs, then at least the warning about the center pin breaking applies.

Mike Yetsko
N1DVJ

---

Date: Thu, 02 Sep 1999 09:09:18 -0400
From: Laura A Fisher <wlfisher@bellatlantic.net>
To: al saldarini <alsaldarini@worldnet.att.net>, David L Wiesen <wiesen@juno.com>, Dennis Sabito <AB2DX@aol.com>, Gene Filipponi <omham@ix.netcom.com>,
     George Heron <n2apb@erols.com>, husdon loop <input@hudson-loop.org>, "k3jf@att.net" <k3jf@att.net>, "Kc2aup@aol.com" <Kc2aup@aol.com>,
Subject: [49121] [Fwd: September news]
Message-ID: <37CE76FD.C0F53330@bellatlantic.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

hlfek@kodak.com wrote:

> ---------------------- Forwarded by Howard L. Fisher/318332/EKC on 09/01/99
> 03:10 PM --------------------------
>
> George S. Masny
> 09/01/99 12:50 PM
>
> To:
> cc:
> Subject:  September news
>
> From: George S. Masny
>
> ========================================================
>
> ATLANTIC DIVISION NEWS HIGHLIGHTS
> September 1, 1999
>
> ATTRACTING KIDS TO HAM RADIO IS FORUM TOPIC AT WNY SECTION CONVENTION
>
> Getting kids excited about ham radio will be the topic of a forum at the
> Western New York Section Convention in Hamburg, NY, on September 18. Jean
> Wolfgang WB3IOS from ARRL HQ's Field & Educational Services Department will
> conduct the forum. Of course there will be other interesting forums as
> well,
> including the ARRL Forum conducted by Vice Director Bernie Fuller N3EFN.
> All
> in all, it will be a program you want to attend ... hosted by an exellent
> hamfest.
>
> Speaking of attracting youth to ham radio, check out the Jamboree On The
> Air
> announcement, page 49 of September QST. The event is October 16-17, but the
> time to start planning is now. Information about JOTA is available on
> ARRL's
> JOTA Web page.
>
> MARYLAND AUTHOR WINS QST PLAQUE
>
> Dwayne Kincaid WD8OYG, from St. Leonard, MD, won the QST Cover Plaque Award
> for his July article entitled "The DWM-4: A Microprocessor Controlled
> Multichannel Wattmeter for HF, VHF and UHF." Each month, the ARRL Board of

> Directors votes on the best article in that month's QST (articles written
> by
> ARRL employees aren't considered). The winner receives a one-of-a-kind
> plaque showing the cover art from the magazine. Dwayne joins the list of
> outstanding authors from the Atlantic Division who have been voted "best of
> the month" by the Board. Congratulations!
>
> Atlantic Division authors in September QST include Bernie McClenny W3UR and
> Rod Kreuter WA3ENK.
>
> ANNUAL VHF CONFERENCE NEAR PHILADELPHIA
>
> The Mt. Airy VHF Radio Club ("Pack Rats") will host their annual
> Mid-Atlantic VHF Conference on Saturday, October 2, in Willow Grove, PA
> (Exit 27 of the PA Turnpike). This is an important technical conference for
> all hams interested in weak-signal VHF experimentation and operation. John
> Sortor KB3XG is conference chairman, and additional information is
> available
> on the Pack Rats Web page  at http://www.ij.net/packrats/.
>
> HIRAM PERCY MAXIM BIRTHDAY EVENTS
>
> The 130th anniversary of the September 2, 1869, birth of ARRL founder Hiram
> Percy Maxim W1AW will be celebrated nationally and within our Division.
> During a special HPM Birthday operating event ... it's not a contest ...
> many ARRL members will be eligible to append /130 to their callsigns
> September 2 - 11. Details are on page 48 of September QST.
>
> The Antietam Radio Association will operate W3CWC from August 28 to
> September 3 in honor of HPM, who is buried in Hagerstown, MD, the club's
> home town. Suggested operating frequencies are 3.905, 7.035, 14.250, and
> 28.450 MHz. Additional details appear in the "Special Events" column of
> August QST.
>
> WINNERS!
>
> Results of the 1998 ARRL 10 Meter Contest appear in September QST. In the
> club competition, the Potomac Valley Radio Club won the Unlimited category
> with an amazing 31 million points. In the Medium category, Frankford Radio
> Club placed second.
>
> In the 1999 ARRL School Club Roundup, several Atlantic Division schools
> participated. Division clubs from Western Pennsylvania placed second (North
> Clarion School ARC) and third (Cowanesque Valley School ARC) in the
> elementary school group. In the middle/intermediate/junior high group, we
> find Stafford Intermediate School ARC from Southern New Jersey. Among high
> school club participants, there are Belle Vernon High School ARC from
> Western PA and Maryland's Worcester Career & Tech Center Radio Pioneers.

>
> VISIT THE ATLANTIC DIVISION ON THE WEB at
> http://www.bfdin.com/atlantic/index.htm .

---

Date: Thu, 02 Sep 1999 06:21:27 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49122] Re: [Q] telescoping whip with a BNC connector???
Message-ID: <37CE79D7.349C9BEC@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

RS does have one, but it is for scanners.  When plugged into my antenna
analyzer it resonates in the 8 MHz area.  I've uncovered the coil and
will eventually rewind it to get it down to 14 MHz or so for K2 demos.

BTW .. you also need an adapter from (whatever it is .. looks like a
Motorola something) to BNC.  RS sells those too.

Phil

Mike Yetsko wrote:
>
> >Several people have commented on taking their K2 to a club meeting
> >to demo it with a "telescoping whip with a BNC connector". Where
> >do you find these antennas?
> >TNX,
> >Ken N9VV
>

---

Date: Thu, 02 Sep 1999 13:26:53 +0000
From: Brian Short <bshort@speedchoice.com>
To: qrp-l@lehigh.edu
Subject: [49123] FT: QRP Books & c.
Message-ID: <4.1.19990902132116.04245a60@mail.phoenix.speedchoice.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have the following books available for trade for

(preferably) unbuilt QRP transceiver kits or other
accessories:

W1FB's Design Notebook - Practical Circuits for Experimenters

W1FB's QRP Notebook - All New Projects for QRPers

The ARRL Antenna Book - 16th Edition (1991)

The 1987 ARRL Handbook for the Radio Amateur

Please let me know what you may have available fore trade?

73, Brian

--
Brian K. Short  http://www.qex.net/k7on/  mailto:k7on@arrl.net
--

------------------------------

Date: Thu, 2 Sep 1999 09:25:34 -0700
From: Robert P Engelman <rengelwb8uoj@juno.com>
To: qrp-l@lehigh.EDU
Subject: [49124] Capacitance
Message-ID: <19990902.092537.-16695.1.rengelwb8uoj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit


Thanks to all who answered the capacitance question.  I wrote the E-mail
at 12:30 am, and was surprised to see all of the responses by 9:30 am
today.  I have a Fluke DVM with a capacitance function on it, but it only
does pf.  I'll most certainly be able to finger out the uf/nf/pf from now
on.

Thanks

Bob WB8UOJ

_____________________________________________________________________
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Try Juno Web: http://dl.www.juno.com/dynoget/tagj.

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Date: Thu, 02 Sep 1999 16:33:02 +0300

From: Arjen Raateland <Arjen.Raateland@vyh.fi>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [49125] Re: [Q] telescoping whip with a BNC connector???
Message-ID: <37CE7C8E.33D7@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Mike Yetsko wrote:
>
> >Several people have commented on taking their K2 to a club meeting
> >to demo it with a "telescoping whip with a BNC connector". Where
> >do you find these antennas?
> >TNX,
> >Ken N9VV

It could mean a St. Louis Vertical, which is a fishing rod which has a
base attached with a BNC jack on it. The rod is telescopic. It also has
an adjustable center coil.

cheerio,
--
Arjen Raateland
Finnish Environment Institute
SAS Support
phone +358 9 4030 0350

------------------------------

Date: Thu, 2 Sep 1999 09:56:17 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: "Qrp-L@Lehigh.Edu (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [49126] OT: Loop antenna calculations
Message-ID: <000a01bef54c$989e8dc0$a73ffea9@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,

Can anyone point me to a source for the calculations needed to calculate
loop dimensions?

Either the formula or a program or web-site....

Thanks for the bandwidth.

73 de KF4CPJ
George Goodroe, QRP-L #1943
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>
http://home.att.net/~goodroe
http://www.qsl.net/kf4cpj

---

Date: Thu, 02 Sep 1999 07:09:15 -0700
From: Phil Wheeler <w7ox@mindspring.com>
To: Arjen.Raateland@vyh.fi
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49127] Re: [Q] telescoping whip with a BNC connector???
Message-ID: <37CE850B.FF1785D7@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Eric, of Elecraft, does have HF telescoping antenna(s?) for his K2.
They are sold in Japan, and apparently not available elsewhere.  That is
what he has used to demo the K2 (e.g., at ARRL HQ).

Info is from Eric in a private msg .. which I did not save.  Company is
something like Mihahu (but that is not quite right!).

Phil

Arjen Raateland wrote:
>
> Mike Yetsko wrote:
> >
> > >Several people have commented on taking their K2 to a club meeting
> > >to demo it with a "telescoping whip with a BNC connector". Where
> > >do you find these antennas?
> > >TNX,
> > >Ken N9VV
>
> It could mean a St. Louis Vertical, which is a fishing rod which has a
> base attached with a BNC jack on it. The rod is telescopic. It also has
> an adjustable center coil.
>
> cheerio,
> --
> Arjen Raateland
> Finnish Environment Institute
> SAS Support

> phone +358 9 4030 0350

------------------------------

Date: Thu, 2 Sep 1999 07:21:19 -0700
From: Dave Barrett <DBarrett@creo.com>
To: "'goodroe@worldnet.att.net'" <goodroe@worldnet.att.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49128] RE: Loop antenna calculations
Message-ID: <CE0A40BFE0CDD111A2B800A0C99B83EB01313B44@msgcreo2.creo.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Check out: http://www.btinternet.com/~g4fgq.regp/page3.html#S301
This is a good page and has lotsa neato stuff on loops, also:
http://home.swbell.net/aa5tb/loop.html has some good pointers.
                      Good luck
                        Dave VE7PCC Vancouver BC Canada  (Recumbenteer)

-----Original Message-----
From: George Goodroe [mailto:goodroe@worldnet.att.net]
Sent: Thursday, 02 September, 1999 6:56 AM
To: Low Power Amateur Radio Discussion
Subject: OT: Loop antenna calculations


Hello all,

Can anyone point me to a source for the calculations needed to calculate
loop dimensions?

Either the formula or a program or web-site....

Thanks for the bandwidth.

73 de KF4CPJ
George Goodroe, QRP-L #1943
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>
http://home.att.net/~goodroe
http://www.qsl.net/kf4cpj

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Date: Thu, 02 Sep 1999 10:25:32 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu

Subject: [49129] QRP /130
Message-ID: <37CE88DC.427C@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

See the QRP tie in at the end of this repost of the ARRL bulletin announcing the /130 operating event. I believe there are a couple of other QRP reflectors; hopefully someone who partcipates on them will forward this.

---
An operating event to honor the 130th anniversary of the birth of the ARRL's first president and key founder, Hiram Percy Maxim, W1AW,takes to the airwaves in early September. Maxim was born September 2, 1869, so the Hiram Percy Maxim 130th Birthday Celebration--also known as HPM/130--appropriately begins September 2 and continues through September 11. During that period, eligible amateurs may sign /130. Other stations will work as many /130 stations as they can.

Those eligible to sign /130 include League members holding ARRL field appointments, ARRL elected volunteers--such as ARRL officers, directors and section managers, past directors and officers, ARRL life members, and ARRL HQ staff, as well as DXCC field reps. Assistant emergency coordinators, awards managers, QSL bureau workers and volunteer examiners may sign /130 if they are ARRL members.

The operating period is from 0000 UTC Thursday, September 2, until 2400 UTC Saturday, September 11. All stations signing /130, send RS(T), their appointment, and their name: others send RS(T) and their name.

/130 stations may be contacted on any band or mode for credit. You can work a station once per band and mode. Repeater contacts are valid for credit, but be considerate of other users during busy periods.

Certificates are available for making at least 25 contacts with /130 stations and endorsement increments of 25 up to a maximum of 100.

All /130-eligible stations are encouraged to be as active as possible. Complete details on the HPM/130 event and a list of ARRL field positions appear in September 1999 QST, page 48.
---

Now, for the QRP part. I just got the okay to have the League issue a QRP endoresement sticker for the certificates. If you affirm that you made the contacts using QRP power levels, a QRP sticker will be placed on the certificate when it is issued. I will see if I can design

something pretty that states that the applicant has affirmed that the contacts were made QRP.

I will operate 40 and 20 meters as often as I can, most evenings.  I will be running about 100 W, to help as many stations as possible get the /130 contact, but will QRP for those who sign /QRP.

I hope to see LOTS of QRPers in this event!  Let's show the ARRL that QRPers are active and that they will participate in events and programs that have QRP operating awards!

73,
Ed Hare, W1RFI
ARRL Lab

---

Date: Thu, 2 Sep 1999 07:30:27 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [49130] Milliwatt WAS - getting close now
Message-ID: <19990902143027.25042.rocketmail@web705.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I started working on the WAS award 1/31/99. Using the
Worked All States Total Points (WASTP) idea from Bob
White WO3B.
He has been inspiring his readers in the ARCI QRP
Quarterly for years. I'm one of those inspired by him
and other hams he has been writing about.

Afew QRP'ers from QRP-L, ARQRP, and IAQRP have
contacted me and we've made schedules for milliwatt
contacts. Up until very recently I had only been
making contacts by random. But now that I'm on the
last few states I've started making skeds.

On the last day of august I made a sked with a
IAQRP'er
in Davenport, IA. On 40M at 8PM central time we
started
at 4w, I got a 599, at 150mW I got a 569. But with the
QRN/M he lost me when I tried 70mW. So the new state
of IA "cost" me 150mW. Glad to have it, but pretty
fat.

At that point my WASTP reached 1.947 watts for 46 states. And an average of 0.0423w per state.

Pushing 2 watts!  ouch

Next sked was last night, 1 sept with a ham in Oklahoma. My only contact before with OK was a hefty 500mW! That 1/2 w contact really put my wastp "up there" !
So last nights sked was vital, and we had to bring it wayyy down.

We made first contact at 23:34z and 4 watts, my report was 579, so I drop to 200mW and I'm still 559! Down again to 40mW & I'm given a 449. Down to 14mW & 339, & then bottomed out at 5 milliwatts & my RST was 229 at 23:41Z. I tried 2mW but no copy. Back to "QRO", 4 watts and we finished the QSO and I thanked him. He said he had fun too. I know I did!
He was useing a homebrew rig, thats even sweeter.

My power for one state went from 500mW to 5mW in 7 minutes!

My new WASTP is a much more reasonable 1.452w for 46 states and the state average is now 0.0315w.

My goal is to work all states with under 1000mW/1w before the end of 1999.

I still have not worked 4 states at all. KS, KY, NE, and WY.     Hellooooo   ;-)

There are afew states that I've worked with really low power but the QSL cards are "slow" in comeing dispite my SASE. They are CT, IL, NC, NJ, TX, and VT.

By listing them maybe I'll meet another ham from those states and make a sked. And if I ever do get those QSL's fine. Some hams just dont QSL, thats ok.

The following states are kinda hefty and I might be able to bring down the power on them. It's the only way I'm ever going to get my WASTP below 1w.

AR 50mW, CT 45mW, IA 150mW, ME 60mW, MI 70mW, MS 70mW, MT 40mW, RI 100mW, SD 70mW, TX 50mW, UT 40mW, VT 50mW, and WV 50mW.

Any takers from the above states?

My equipment here is the QRP+, and OHR WM-2 in-line for mW power read out. Two element quad @ 70' on 15/10M. Half square wire antenna for 20M, and dipoles on 40 and 80M. I've got all bands covered from 160 - 10M.

I know there are those who say my 1st contact with OK at 4w IS my power for OK. I understand this and respect that. But for the purposes of this milliwatt experiment I hope they understand the reasons I do it the way I do.

Playing "QRP Limbo" is a great FUN thing to do in the QRP hobby. Its exciting for sender and reciever if both are into it. I've involved QRO CW ops and if they are into it at all, they have a ball!

For those who want to maintain the 1st contact power IS the final power concept, may I suggest starting at 500mW. I bet you can WAS with 1/2 watt really easy. No re-setting your power at all. Set it at 500mW and forget it. That would be a worth while WAS effort!

ARCI offers its QRP WAS in steps/indorsments. You dont have to have all 50 before getting the basic award. You then add indorsments till you have all 50. Helps maintain QRP motivation.

Contact the ARCI awards manager Steve, N4EUK at radioham@erols.com.
The website is http://www.qrparci.org

Remember, nobody should have to strain to make a 5w QRP or 5mW QRPp QSO. If condx dont allow it, run your power up and make it comfortable.

In these past few months I've come to understand that when nature gives us good propagation,it may be way better than we thought! If 5w is Q5 or better, then drop to 1w. If 1w is still Q5, you know what to do next! ;-)

Best of 73's, 72's and sometimes 71's!  Jim  KJ5TF

---
Do You Yahoo!?

Bid and sell for free at http://auctions.yahoo.com

------------------------------

Date: Thu, 2 Sep 1999 07:36:49 -0700 (PDT)
From: "Jack Oakland, CA" <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [49131] FS: AEA Isoloop Antenna
Message-ID: <19990902143649.17839.rocketmail@web120.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I Have an AEA Isoloop HF antenna I'd like to sell. It
covers 20-17-15-12-10 Meters. Comes complete with the
control box and 50' of cable, includes original
instructions and box. In good condition. Nice
antenna for travel or where you have ant. restrictions
or is great for apartment dwellers. Will sell and
ship for $225 or trade for a Bird 43/43P.
Thanks for reading,
Jack - W6ABC

_____
Do You Yahoo!?
Bid and sell for free at http://auctions.yahoo.com

------------------------------

Date: Thu, 2 Sep 1999 09:49:41 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [49132] Lightening and Static Protection of Verticals
Message-ID: <000201bef552$635d39d0$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have an elevated Butternut HF9V with resonant radials, mounted on a metal mast. Much evidence seems to point to a performance advantage of isolating the radials from the physical ground (the mounting mast). This includes the coax shield and of course the bottom of the coil which is across the feed point. The other end of the system, in the shack is (I feel) quite adequately grounded.

My concern is that with this arrangement, I do not have good lightening protection - a quick DC path to ground at the antenna, and a good way of draining off static buildup on the antenna itself.

I have considered the possibility of adding some sort of choke coil between the "bottom" of the antenna and the mast which is grounded.  I'm not sure of the best size.  It should have low DC resistance, and high RF resistance to the lowest freq. (80M).

Ideas?

Dan W. Dooley WB5TKA
   e-mail to: dandooley@pipeline.com

---

Date: Thu, 2 Sep 1999 09:49:42 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [49133] Atlas 210X
Message-ID: <000301bef552$641f5150$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have recently resurrected an old Atlas 210X which I used to use for mobile.  Not much for QRP, but has great potential for portable operation.

In going through "tune-up" checks, I'm running into some technical questions.  I have a manual for the radio.  It is a little light on technical info., and though it provides schematics for the individual boards, there is no interconnecting wiring drawing.

Anyone have any technical knowledge of this radio?  I'd like to correspond. Off the reflector and direct to me would be fine.

Tnx

Dan W. Dooley WB5TKA
   e-mail to: dandooley@pipeline.com

---

Date: Thu, 2 Sep 1999 08:00:23 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [49134] Addendum to What Kit Should I Build #6
Message-ID: <01bef553$e25d2b40$630a0d0a@doug.dpol.k12.ca.us>

MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys I apologize for the appearance of the chart that I tried to do yesterday on the price comparison of the rigs.  Here it is in a form that you can read.

Emtech NW40
Base Price $130
Keyer  $27.50
Frequency Readout  $20
10 Turn Precision Tuning Pot  NA
Total = $177.50

Kanga US Hands GQ40
Base Price $185
Keyer  $27.50
Frequency Readout  $20
10 Turn Precision Tuning Pot  NA
Total = $232.50

Morse Express OHR 100A
Base Price $119.95
Keyer  $17.95
Frequency Readout  $74.95
10 Turn Precision Tuning Pot  $11
Total = $223.85

Red Hot Radio NC20A
Base Price $135
Keyer  Included
Frequency Readout  Included
10 Turn Precision Tuning Pot  Included
Total = $135

S&S Engineering TAC1
Base Price $199.95
Keyer  $29.95
Frequency Readout  Included
10 Turn Precision Tuning Pot  NA
Total = $229.90

S&S Engineering ARK 40
Base Price $269.95
Keyer  $29.95
Frequency Readout  Included

10 Turn Precision Tuning Pot  NA
Total = $299.90

Small Wonder Labs DSW
Base Price $90 + $35 for case, connectors and controls
Keyer  Included
Frequency Readout  Included
10 Turn Precision Tuning Pot  NA
Total = $125*
* Case option included to make it a complete kit to compare with others in survey.

TenTec TT1340
Base Price $95
Keyer  $27.50
Frequency Readout  $20
10 Turn Precision Tuning Pot  $11
Total = $153.50

Wilderness Radio NC40A
Base Price $129
Keyer  $48 (KC-1)
Frequency Readout  (KC-1)
10 Turn Precision Tuning Pot  $11
Total = $188

There, finally you can make some sense out of the information.  I apologize for the bandwidth.  72, Doug

---

Date: Thu, 2 Sep 1999 11:18:12 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <dandooley@pipeline.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49135] RE: Atlas 210X
Message-ID: <000201bef556$5f58cbc0$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dan, it's a terrici SSB rig, and the shape-factor of its xtal filter is unsurpassed.

I have one, and the manual.

BTW: I used mine for eight years in the mobile and made 1,000s of contacts and worked a lot of DX. It's always amazing to hear a DX station tell the pack: "The mobile, and the mobile station ONLY, please!"

How can I help you out?

Vy 73, AI2Q, Alex in Kennebunk, Maine

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Dan W. Dooley
> Sent: Thursday, September 02, 1999 10:50 AM
> To: Low Power Amateur Radio Discussion
> Subject: Atlas 210X
>
>
> I have recently resurrected an old Atlas 210X which I used to use for
> mobile.  Not much for QRP, but has great potential for portable operation.
>
> In going through "tune-up" checks, I'm running into some technical
> questions.  I have a manual for the radio.  It is a little light on
> technical info., and though it provides schematics for the individual
> boards, there is no interconnecting wiring drawing.
>
> Anyone have any technical knowledge of this radio?  I'd like to
> correspond.
> Off the reflector and direct to me would be fine.
>
> Tnx
>
> Dan W. Dooley WB5TKA
>    e-mail to: dandooley@pipeline.com
>
>

---

Date: Thu, 2 Sep 1999 11:23:36 -0400 (EDT)
From: Chris Cartwright Sr <ccart@phideaux.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49136] Re: Lightening and Static Protection of Verticals
Message-ID: <Pine.LNX.4.04.9909021115500.179-100000@dns.phideaux.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 2 Sep 1999, Dan W. Dooley wrote:

> protection - a quick DC path to ground at the antenna, and a good way of

Can't help much with choke or grounding, but from the little I've read lighting is not a DC event. One site that took a hit measured the distance between the blown out burn holes in the coax, and worked out that there is a *LOT* of energy up to at least 300MHz. I like my lightning protection method, throw the cables outside, hide, come out after it's all over and see what's left :)

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

---

Date: Thu, 2 Sep 1999 10:24:04 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: <dandooley@pipeline.com>
Cc: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [49137] RE: Lightening and Static Protection of Verticals
Message-ID: <000001bef557$3160cd20$ef5d6f81@uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have added a large value RF choke at the base of all of my vertical antennas with pretty good results. It must be of a large enough value to present a high impedance to the lowest band you are operating.

Another thing that I used to do with my multiple antenna/coax arrangements was to put resistors across the antenna feedpoint. I would use the resistance to identify which coax I was using. I would put an 80K resistor on the 80m antenna, a 47k on the 40 meter...10k on the 10 meter antenna. Each resistor was a 1 watt carbon film type. Even the lowest resistance (10k) was high enough as to not interfere with the antenna's impedance. It had the added advantage of bleeding off the static voltage that might build up.

I still get hit a few times a year but it seems to keep a great majority of the energy out of my shack.

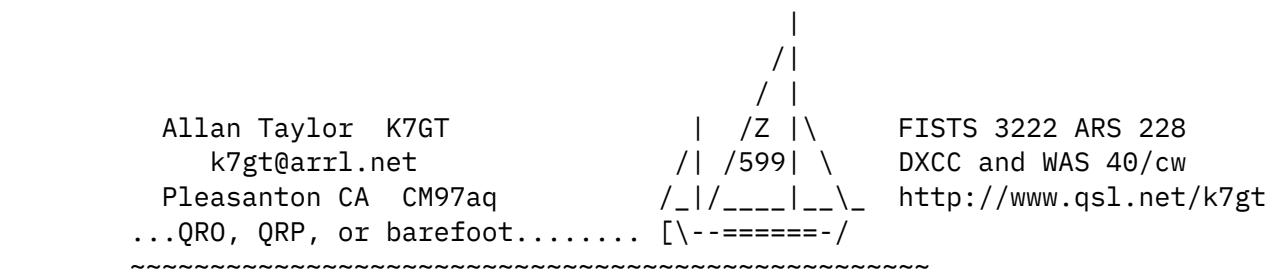
Kevin, WB5RUE

---

Date: Thu, 02 Sep 1999 08:32:51 -0700
From: Allan G Taylor <k7gt@arrl.net>
To: qrp-l@lehigh.edu
Subject: [49138] FS: Wilderness Radio NC40A
Message-ID: <37CE98A3.4520@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Too many rigs...  I have a NC40A,  Wilderness Radio Rev. B, for sale. Absolutely stock. $90 shipped CONUS or will consider trade offers that include Sierra 20m and/or 15m band modules or a functional HamKey or Bencher iambic paddle.

GT
--




---

Date: Thu, 02 Sep 1999 09:34:44 -0600
From: Pat Byers <pbyers@rttinc.com>
To: <qrp-canada@lists.gpfn.sk.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49139] Tektronix 465B part
Message-ID: <4.2.0.58.19990902092535.009cf870@mail.rttinc.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Many thanks to all who helped me locate a part for a Tektronix 465B oscilloscope.

Tektronix was of no help at all. Their only response was that the 465B is obsolete so they don't provide support for it. Bummer!

I found what I wanted from

Dean Kidd, W7TYR
27270 SW Ladd Hill Rd
Sherwood OR  97140
tel 503-625-7363

Dean is a great guy with a long history at Tektronix. He was one of the first 60 employees to be hired there. In his retirement, his main goal in life appears to be in helping others. He had the part I needed in stock and was very happy to sell it to me at a very reasonable price. I highly recommend Dean to any other Tek owners out there who need parts and service.

73,

Pat Byers, VE6AAN

---

Date: Thu, 2 Sep 1999 11:39:44 EDT
From: Davewb4@aol.com
To: qrp-l@lehigh.edu
Subject: [49140] Gap Titan Antenna
Message-ID: <ef246212.24fff440@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Gang:
I am thinking of putting up a vertical to replace the quad that got destroyed when the tower went south. Would appreciate any info on the Gap Titan Dx from anyone who has one.
73
Dave Rogers
WB4CHK
Plantation FL

---

Date: Thu, 2 Sep 1999 10:38:15 -0500
From: "Brockwell, Stephen E." <brockwse@fssec.army.mil>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [49141] WTB:  MFJ 418 code tutor
Message-ID: <C0DFB43A0D57D311B0170000F8BDCA840AE3CC@alrsrv02>

MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"

Anybody have an MFJ 418 code tutor they want to part with?

Just because one passes the 13 WPM test for general doesn't mean they can
really copy code.
Time to get down to business.

Email direct to brockwse@fssec.army.mil

------------------------------

Date: Thu, 02 Sep 1999 08:54:57 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [49142] FS: MX Sprint Keyer/Paddle
Message-ID: <37CE3B61.33607489@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Too much stuff here, so I'd like to sell my MX Sprint Keyer/Paddle from
Morse Express.  Nye squeeze key with installed PK-2 iambic keyer.  Two
memories (52 char. ea. + callsign), side-tone, auto CQ, beacon send, A/B
modes, 5-39 WPM.  Used little, no scratches,  have original box and
docs.

Morse Express has them for $119.95 plus shipping.  I'm asking $100.00
shipped.

Tnx/72..Roger
--
73, de Roger, N7KT
qrp-l #62, NorCal #1099, Zombie #006
Mesa, AZ 85202

------------------------------

Date: Thu, 02 Sep 1999 11:05:24 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: rengelwb8uoj@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49143] Re: Capacitance
Message-ID: <37CEA044.818362C9@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Bob, I must apologize for giving  you some bad info. Guess it was too late or something, but I said that "pico" meant 10^-9 which is WRONG! It equates to
10^-12. The other responses appear to be correct. I had nanofarads (10^-9) and picofarads (10-^-12) crossed up - sorry about that!   ;^)

Back in the early days before the US adopted more standard units, the abbreviation "mmf" was used for what is now called the picofarad or "pf." As you might expect it was universally called the "mickey-mike" for short. We had "mikes" (mf) and "mickey-mikes" (mmf) as units. Now we have "mikes" and "puffs" ! Gotta be technical, ya know . . .

72/73, George        AMA 98452       R/C since 1964

Amateur Radio W5YR, in the 54th year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas)  Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X  33.2 N 96.6 W EM13RE

---

Date: Thu, 2 Sep 1999 12:08:28 EDT
From: Robsparks@aol.com
To: qrp-l@lehigh.edu
Subject: [49144] AR QRP 40m Net Results
Message-ID: <2f5603d8.24fffafc@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The AR-QRP Net 9 QNIs last night including one first time QNI The net, delayed by a busy freq and QRM from SSB, began at 0035Z and ended  at 0113. Propagation was fair, signal reports were generally good, and we lost no one during the net due to conditions. It was fun to hear from everyone about those new antennas and kits being built.  N5IB had the newest antenna in the bunch, a Delta Loop completed about 15 minutes earlier! Very good signal from the loop, too!  The net is a  fun place to just listen and brush up on CW, even if one does not choose to QNI! Thanks to those who participated! Here are the stations that checked in:

KK5XO   Dick
KF4KSM  Mac
N5IB        Jim
KJ5TF       Jim
KC4MHM  Ed
N5OBC   Mark
KC0DX   Ed
K1CL        Chuck

K8NWD  Tim

The NCS was Bob AB5ZD, using the AR QRP Club call NQ5RP, QTH Alexandria LA, running 5 watts to a G5RV up about 25 feet in pecan trees.  Orientation of the ant wire is NNW to SSE. Following is a list of Arkansas QRP Club nets:

| | | |
|---|---|---|
| Monday Night | 0030Z | 3.560 MHz |
| Wednesday Night | 0030Z | 7.042 MHz |

Non-members are welcome (and encouraged) to QNI!

72,

Bob AB5ZD

---

Date: Thu, 2 Sep 1999 09:11:00 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49145] Re: USB or LSB?
Message-ID: <Pine.GSO.4.10.9909020858150.10508-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> > By the way, the FT-1000MP is great for QRP. You can set the max power to 10
> > watts and then use the RF out knob and get your power down to the
> > milliwatts.
> >
>
> Yes, but in watts per pound or cubic inches, not so good; likely not
> easy on batteries, either :-)

But the MP will knock the socks off anything that is small, light and easy on batteries!  :-)

It's like compairing some silly little 4 cylinder underpowered, undersized, light death trap to a full sized 4x4 diesel P/U.

While you can get some super milage out of the little thing (maybe), you gotta get the big one to get a real job done!

I throw the NC40a in the suitcase when I want to play around in a Fox hunt (or just chat) from a motel room but when I want to get serious about a contest I use the MP.

Different tools for different jobs!

cul,

73, Ron,     SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

---

Date: Thu, 2 Sep 1999 09:15:20 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49146] Re: DSW-20 picture
Message-ID: <Pine.GSO.4.10.9909020913130.10508-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Jim Giammanco wrote:
> >
> > Visit  <http://www.qsl.net/n5ib>  for a picture of an (in my humble
> > opinion) unique packaging of the DSW20. Also a link to the USS Kidd Naval
> > Memorial.

Wow!

That's beautiful Jim!

You need to enter that in one of the building contests!

73, Ron,     SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

---

Date: Thu, 02 Sep 1999 11:17:49 -0500
From: Brian Murrey <brian@iquest.net>
To: w1rfi@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49147] Re: QRP /130

Message-ID: <37CEA32D.3C397D26@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Ed Hare, W1RFI" wrote:
>
> See the QRP tie in at the end of this repost of the ARRL bulletin
> announcing the /130 operating event.  I believe there are a couple of
> other QRP reflectors; hopefully someone who partcipates on them will
> forward this.
>
> ---------------------------
> An operating event to honor the 130th anniversary of the birth of the
> ARRL's first president and key founder, Hiram Percy Maxim, W1AW,takes to
> the airwaves in early September. Maxim was born September 2, 1869, so
> the Hiram Percy Maxim 130th Birthday Celebration--also known as
> HPM/130--appropriately begins September 2 and continues through
> September 11. During that period, eligible amateurs may sign /130. Other
> stations will work as many /130 stations as they can.

OHHHHHHHHHHH!!!  So that's what THAT was! I kept hearing this last night
and had completely forgotten about it.

Thanks Ed

------------------------------

Date: Thu, 02 Sep 1999 11:58:30 -0500
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>
To: qrp-l@lehigh.edu
Subject: [49148] The 20-M Wonderpole
Message-ID: <CGAFMDANJNJLAAAA@shared1-mail.whowhere.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All,

It appears I have succeeded in putting together a cheap, lightweight 20 meter
vertical antenna for my Montana (Cooke City area) backpacking trip next summer.

The antenna uses a 16-foot Shakespeare "Wonderpole" crappie rod which I picked up
at the local Gander Mountain store for $15. This telescoping rod is extremely
light (< 1 lb, I'd guess) but heavy duty enough to suspend a lightwight vertical
wire.

I wanted to elevate the radials a few feet off of the ground so went to Home Depot and discovered that the hollow bottom segment of the Wonderpole slides perfectly around a piece of rigid 3/4" PVC ($1.98 for a 10 foot section). No screws required because the fit is so perfect, and the tapered Wonderpole segment stops when it gets about 7" down the PVC. I use around 6 feet of PVC (a 4 ft and 2 ft section, connected by the built-in coupler at the and of the pvc) to elevate the antenna off of the ground. I use 4 small eye screws into the PVC as attachment points for four 1/4 wave verticals and another eye screw just above those as the bottom support for the vertical wire. This eye bolt is positioned around 7 inches below the bottom of the Wonderpole so that the total length of the vertical radiator is around 16'7". I slope the insulated radials from the 4.5' level down to ground level and anchor them with plastic tent stakes. I feed the antenna with 20 feet of RG-58 coax with all!
igator clips to attach to the feedpoint of the antenna. The system is extremely light, collapsible to 4 foot segments for easy carrying, and seems to work well with a perfect match to the coax (according to the built-in SWR meter of my IC-740). I've talked to several east coast station (from Minnesota) with good reports.

One could use the DK9SQ mast and get the thing further off the ground, but it would weigh a bit more and I'm cheap so every $ saved is worth it.

All measurements given above are approximate (I built this thing on the fly) so if anyone wants exact dimensions let me know and I'll crack out the measuring tape.

A Happy Holiday Weekend to all,
Joel NF9K

---
Joel Kluender, NF9K
870 Prairie Street S.
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at http://www.eudoramail.com

---

Date: Thu, 2 Sep 1999 12:22:12 -0500
From: Michael McShan <William-McShan@ouhsc.edu>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49149] Re: What Kit to Build #6 (with better alignment of article I hope)
Message-ID: <l03130301b3f45eff03d2@[157.142.58.61]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi folks,

Just one comment on Doug's excellent posting:

```
>Company      Emtech     Kanga US     Morse Exp.
>Model             NW40      GQ40            OHR 100A
>Base Price     $130        $185            $119.95
>Keyer              $27.50     $27.50          $17.95
>Freq. Readout  $20        $20            >> $74.95<<
>10T Tuning Pot  $NA      $NA              $11.00
```

The price of the frequency readout for the OHR100a is using their dedicated display (model DD-1). Dave Benson's PIC-based Freq-mite that Doug mentioned also works well with the OHR100a. The freq-mite easily mounts inside the case, resulting in a very compact package. So, if you are interested in keeping costs down (who isn't?), then this is a good option for the OHR100a, too.

72,
Mike NA5E

W. Michael McShan
Univ. Oklahoma Health Sciences Center
Dept. of Microbiology and Immunology
BMSB 1053
940 S.L. Young Blvd.
Oklahoma City, OK 73104

(405)-271-1202
(405)-271-3117 FAX

William-McShan@ouhsc.edu

NA5E ex-N5JKY

------------------------------

Date: Thu, 2 Sep 1999 12:22:55 -0500
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
To: "'QRP-L'" <qrp-l@lehigh.edu>
Subject: [49150] WTB:  Hallicrafters TO Keyer
Message-ID: <21B46CBD022AD1118F0500805F15A06801866827@stpmsx05.stp.guidant.com>
MIME-Version: 1.0
Content-Type: text/plain

Hi All,

Want to buy a Hallicrafters TO Keyer (HA-1) to use with my tube qrp station.
Prefer good physical and operational condition.  Also looking for National
SW-3 for a glowbug qrp station.

72,  Scott WA9WFA in Saint Paul Minn


------------------------------

Date: Thu, 2 Sep 1999 10:48:51 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: <w7ox@mindspring.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49151] RE: My NC20 is a DX machine!!
Message-ID: <004301bef56b$6b08d7c0$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>
> Kory Hamzeh wrote:
> >
> > My second NC20 contact was XE2EA who gave me a 589. He's about
> 2500 miles
> > away. My first NC20 contact was UA0FI. Do I need to get another
> rig just for
> > state side contacts ?!?! :-)
> >
>
> Yeah, Kory. Get a K2 .. but you will have to use 30 or 40; my first six
> contacts on 20m with the K2 were in Europe.
>
> Plan to build a K2 later this month .. or in October; looks like a very
> nice radio and a good building experience.
>

> Phil

My K2 (#513) arrived yesterday. Just my looking at the manual, parts, capabilities, the K2 went way beyond my expectations. I think it sets a new standard for radios and kits. Now to come up with the time to build it.

Kory

---

Date: Thu, 2 Sep 1999 10:58:31 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'QRP-l List Server'" <qrp-l@Lehigh.edu>
Subject: [49152] Code Speed Question..
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F01DE03E1@hq-expo2.filenet.com>

The other day, I was engaged in a post-swap meet conversation with some other QRPers and the subject of code speed came up. I had always assumed that the World record for copying (sending and receiving) Morse code was somewhere around 75 word per minute, but someone remarked that some are able to do 80+ wpm. Furthermore, I read in an older QRP ARCI quarterly that there were those capable of  copying at 100+ wpm.

Several times I have turned the ol' K-3 up to 60 wpm and pushed the 'QTH' memory button. For the life of me, I cannot conceive of a human deciphering code at that speed (let alone 75 wpm). yet, I know they're out there..

My eternal thanks for any enlightenment.

---

Date: Thu, 2 Sep 1999 11:07:57 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: <w7ox@mindspring.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49153] RE: USB or LSB?
Message-ID: <004a01bef56e$15e21ba0$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>
> Kory Hamzeh wrote:
> >
> > Hi Everyone,
> >

> > On my Yaesu FT-1000MP, you can select USB or LSB tx/rx in CW mode. The
> > user's manuals does not mention anything about this, but I'm
> wondering what
> > is the proper setting for each band?
> >
>
> Does not matter.  BTW .. K2 will do the same.

That's what I was told, so I decided to give it a try (after owning the MP for about 3 years!). I started in LSB mode and centered a CW signal in my band pass, then I hit the CW button again to switch to USB and I could not hear anything. Monte, have you tried this?? What could I be doing wrong?

>
> > By the way, the FT-1000MP is great for QRP. You can set the max
> power to 10
> > watts and then use the RF out knob and get your power down to the
> > milliwatts.
> >
>
> Yes, but in watts per pound or cubic inches, not so good; likely not
> easy on batteries, either :-)

Your comparing apples and oranges.

Kory

---

Date: Thu, 2 Sep 1999 14:19:42 EDT
From: N1ODL@aol.com
To: qrp-l@lehigh.edu
Subject: [49154] qrp/130
Message-ID: <ea05a966.250019be@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I did have a short QSO with a guy who signed /130 last night. At that time I did not know about the Maxwell contest. From reading the messgae posted on the web, I still do not know what I should be responding with to give him points. My wife was cleading up the other day and threw out my Sept. QST. (she was on a roll)
Any help would be appriciated.
Aron
N1ODL/qrp
Bedford, NH

---

Date: Thu, 2 Sep 1999 08:10:37 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [49155] Re: HTML Editor
Message-ID: <000701bef572$0c49e9c0$0818063e@p75>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Like Al Gritzmacher I really hate using FrontPage but it's company mandated software for all the stuff I do at work. My editor of choice is Web Express from Microvision. I think their URL is www.mvd.com , but a search for "Web Express" or "Microvision" will find it.

I write the GQRP club web site using this software and it is "un fussy" and easy to use. Of course you don't need an HTML editor at all, my good friend Jerry Parker writes the NORCAL site with only Notepad (we're not worthy!), but I consider that hard work.

Ron Stark is also right about learning HTML. All editors will at times present you with code that doesn't do exactly what you want then have to dive in and hack it with Notepad.

There's no one answer that we all agree on (except maybe about FrontPage), but Web Express suits my needs and that of my wallet!

Kind regards
Tony - G4WIF
Dartford
England

---

Date: Thu, 2 Sep 1999 15:01:00 -0400
From: Dan Halbert <halbert@bbn.com>
To: ianpurdie@integritynet.com.au
Cc: qrp-l@Lehigh.EDU
Subject: [49156] Re: [48957] Copy of QST article
Message-ID: <199909021901.PAA12259@siu>

  >Is it possible for someone to provide me with a photocopy of this

>article?
> Hayward, Wes A Unified Approach to the Design of Crystal Ladder Filters
>QST May, 1982.

Sounds like you already are getting a copy of the article, but you might also be interested in a spreadsheet I worked up a number of years ago to do the Butterworth and Chebyshev filter calculations mentioned in the article.

It's done as a Lotus 1-2-3 spreadsheet, but could certainly be imported into Excel. This spreadsheet was created on Lotus 1-2-3 Release 4, but is a .WK1 file (and associated .FMT file).

Fetch:

    ftp://ftp.arrl.org/pub/qst-binaries/xtalf.zip

For some reason when ARRL packaged them up they put two versions of the "xtalf.txt" file in the zip file. The second one is a little more complete.

There is a numerical error in one of the tables in the article. The spreadsheet files correct the error.

Regards,
Dan, KB1RT

---

Date: Thu, 2 Sep 1999 12:07:54 -0700 (PDT)
From: "Jack Oakland, CA" <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [49157] AEA Isoloop is sold.
Message-ID: <19990902190754.27461.rocketmail@web112.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Antenna is sold.

_____
Do You Yahoo!?
Bid and sell for free at http://auctions.yahoo.com

---

Date: 2 Sep 1999 14:11:08 -0500
From: "rohre" <rohre@arlut.utexas.edu>
To: Karl.Kanalz@optelinc.com, qrp-l@lehigh.edu

Subject: [49158] RE: Antennas, CFA for transmitting
Message-ID: <n1275840992.97931@msmailgw1.arlut.utexas.edu>

Thanks Karl,  NAB, indeed, not NBA!!!
Gosh, must be getting close to a new Spurs season!! :-)

72, Stuart K5KVH
San Antonio native!

---

Date: Thu, 2 Sep 1999 14:28:04 -0500
From: "Nathan Gordon, KF9LI" <nathang@bigfoot.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [49159] Re: HTML Editor
Message-ID: <029301bef579$48bdd180$0401a8c0@ramphome.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just wanted to throw in my 2 cents worth here.

I really like Arachnophilia - http://www.arachnoid.com/arachnophilia/index.html - but you have to know basic HTML to use it.  Other
than that, Sausage Software - http://www.sausage.com - makes a really nice WYSIWYG HTML editor too.

73,
KF9LI

----- Original Message -----
From: Tony Fishpool <g4wif@btinternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Sent: Thursday, September 02, 1999 2:10 AM
Subject: Re: HTML Editor

Like Al Gritzmacher I really hate using FrontPage but it's company mandated software for all the stuff I do at work. My editor of choice is Web Express from Microvision. I think their URL is www.mvd.com , but a search for "Web Express" or "Microvision" will find it.

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There's no one answer that we all agree on (except maybe about FrontPage), but Web Express suits my needs and that of my wallet!

Kind regards
Tony - G4WIF
Dartford
England

---

Date: Thu, 02 Sep 1999 09:38:53 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: ku7y@dri.edu
Cc: qrp-l@lehigh.edu
Subject: [49160] Re: USB or LSB?
Message-ID: <3.0.6.32.19990902093853.00796ab0@clients1.hawaii.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jeez Ron, you'd think you were on some QRO dxer reflector not qrp-l.
Are you sure you're posting to the right group???

At 09:11 AM 09/02/1999 -0700, you wrote:
>
>> > By the way, the FT-1000MP is great for QRP. You can set the max power to 10
>> > watts and then use the RF out knob and get your power down to the
>> > milliwatts.
>> >
>>
>> Yes, but in watts per pound or cubic inches, not so good; likely not
>> easy on batteries, either :-)
>
>
>But the MP will knock the socks off anything that is small, light and
>easy on batteries!  :-)
>
>It's like compairing some silly little 4 cylinder underpowered,

>undersized, light death trap to a full sized 4x4 diesel P/U.
>
>While you can get some super milage out of the little thing (maybe), you
>gotta get the big one to get a real job done!
>
>I throw the NC40a in the suitcase when I want to play around in a
>Fox hunt (or just chat) from a motel room but when I want to get
>serious about a contest I use the MP.
>
>Different tools for different jobs!
>
>cul,
>
>73, Ron,     SOWP 5545M,
>
>.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
>....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
>....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
>
>
--

```
   __
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/ __  /    Insensibly one begins to twist facts to suit theories,
/  (_/ (_<__   Instead of theories to suit facts.
                     -- Sherlock Holmes, "A Scandal in Bohemia"
```

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

---

Date: Thu, 2 Sep 1999 14:51:57 -0500
From: "Mark Hogan" <mhogan@email.msn.com>
To: <brockwse@fssec.army.mil>
Cc: "QRP LIST" <qrp-l@Lehigh.EDU>
Subject: [49161] Re: MFJ 418 code tutor
Message-ID: <014d01bef57c$c8cfe450$6ae60181@mhoganws>

> Just because one passes the 13 WPM test for general doesn't mean they can
> really copy code.

Well now I thought I was the only "LUCKY" one   :)

I passed my 13wpm in Feb., and I just found in the last few weeks that the
W1AW code practice is a real good deal.  I know ugh listening to the rig at
a set time...

I'm head copying 85 - 90% of the 13wpm stuff (but I still get spooked when I get on the air, hence last nights fiasco of my sending abilities on the AR-QRP net) and starting to get some of the other faster stuff.  I also listen to the 20wpm tapes to and from work, head copying the letters that I can get, it will surprise you on the words you pick up after a while.

I still think the last few nights of W1AW have been more productive then the tapes.  ymmv
Don't know about the MFJ, but the W1AW is free...

Good luck, it'll come with time, (hope you get it faster then I am :)

Mark Hogan / N5OBC

---

Date: Thu, 2 Sep 1999 16:06:19 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49162] Re: USB or LSB?
Message-ID: <Pine.3.89.9909021651.D23852-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 2 Sep 1999, Art Neilson, KH7PZ wrote:
>
> Jeez Ron, you'd think you were on some QRO dxer reflector not qrp-l.
> Are you sure you're posting to the right group???
>
Seems appropriate to me.  Without reservation, I'd say the FT-1000MP is the finest QRP rig in existance!


        73,
                    ,'' '',
     Bob Patten, N4BP              ( 0 0 )               Plantation, FL
_____________________________oOOo-(_)-oOO_____________________________________

                          E-Mail: n4bp@bc.seflin.org
               Web Page: http://wg104a.wh.uni-stuttgart.de/~n4bp
                      Brass Pounder BBS: (954) 472-7715


---

Date: Thu, 2 Sep 1999 13:10:01 -0700
From: "Dan Walker" <DWalker@sciconsd.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [49163] PCB software?
Message-ID: <000501bef57f$2e178e60$030f010a@KiloFox.sandiegozoo.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone know of a good shareware Windows printed circuit board program?
I just need something that will place a dozen or so componants.

------------------------------

Date: Thu, 2 Sep 1999 13:13:21 -0700
From: "Samuel A. Falvo II" <kc5tja@dolphin.openprojects.net>
To: qrp-l@lehigh.edu
Subject: [49164] USB/LSB
Message-ID: <19990902131321.A26622@dolphin.openprojects.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Thanks to all who replied.  I pretty much knew everything that was said, but
yet I still had a brain fart.  Live and learn, I guess... :)


==========================================================================
      KC5TJA/6     |                  -| TEAM DOLPHIN |-
        DM13       |                  Samuel A. Falvo II
    QRP-L #1447    |          http://www.dolphin.openprojects.net
   Oceanside, CA   |.....................................................


------------------------------

Date: Thu, 02 Sep 1999 13:25:53 -0700
From: Eric Swartz WA6HHQ - Elecraft <erics@elecraft.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [49165] Elecraft Update - K2s now shipping from stock (finally!)
Message-ID: <37CEDD51.56C11AB7@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, we finally did it. We finally have caught up with the K2 backlog and we
are now shipping K2 orders from stock. Just in time for winter building!

Maybe we'll have a little more time now to make some K2 QSO's ourselves.. (We wish..) Now for the options. Here's a quick status update:

Battery Option: Shipping now
Noise Blanker : PC boards in, Starts shipping in 1 week.
160M/2nd Ant  : PC boards in, Starts shipping in 1 week.
AutoTuner     : PC boards in; Final firmware in process. Should ship by end of month.
SSB Option    : PC boards in; In final Engineering test, ships in 2-3 weeks if no problems.

Getting these out the door should keep us out of trouble for the next several weeks.

I'm on the air when ever possible with an SSB option in my K2. Give me a call if you hear me and let me know how I sound.

We have also updated our web page, http://www.elecraft.com , with new news, customer comments, and new several application notes on our Builder's Resource Page.

Thanks again for all of your support and interest. K2s have even been used for Moonbounce contacts! Wayne and I have been extremely pleased with the enthusiasm and support of our endeavor.

72, Eric  WA6HHQ

---

Date: Thu, 2 Sep 1999 15:28:18 -0500
From: "Nathan Gordon, KF9LI" <nathang@bigfoot.com>
To: <DWalker@sciconsd.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [49166] Re: PCB software?
Message-ID: <031601bef581$b494f5c0$0401a8c0@ramphome.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dan,
Try http://www.cadsoftusa.com/freeware.htm I like it, and it is free.

73,
KF9LI

----- Original Message -----
From: Dan Walker <DWalker@sciconsd.com>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Sent: Thursday, September 02, 1999 3:10 PM
Subject: PCB software?

Anyone know of a good shareware Windows printed circuit board program?
I just need something that will place a dozen or so componants.

---

Date: Thu, 02 Sep 1999 16:31:11 -0700
From: JPD <jdanter@mail.i-america.net>
To: qrp-l@Lehigh.edu
Subject: [49167] Re: Lightning Protection Info
Message-ID: <37CF08BF.160D@mail.i-america.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

http://www.polyphaser.com/

---

Date: Fri, 03 Sep 1999 07:16:08 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49168] Re: OT: HTML Editor
Message-ID: <37CEE918.60FCD5AC@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I use Composer which comes as part of Netscape which is also free.

I'm satisfied with it.

--
73's

Ian Purdie
VK2TIP "I'll give you the TIP mate"
Budgewoi N.S.W. Australia
Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)

QRP-L member #1978.
URL - http://www.integritynet.com.au/~purdic/
URL - http://www.qsl.net/vk2tip/
"Three out of five Web experts agree that frames are the work of the
devil and represent all that is evil about the Web. The remaining two
experts are agnostic and think that frames are just a stupid idea" -

---

Date: Thu, 02 Sep 1999 17:16:45 -0400
From: "David P. Drake" <dpd@dtpax2.ncifcrf.gov>
To: qrp-l@Lehigh.EDU
Subject: [49169] Fwd: Thursday's Classroom explores the Sun's sizzling corona
Message-ID: <4.1.19990902171614.00bcbed0@dtpax2.ncifcrf.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Thu, 2 Sep 1999 10:22:56 -0500
>From: NASA Science News <expressnews@sslab.msfc.nasa.gov>
>Reply-To: EXPRESSREPLY@SSLAB.MSFC.NASA.GOV
>To: express-delivery@sslab.msfc.nasa.gov
>Subject: Thursday's Classroom explores the Sun's sizzling corona
>
>NASA Space Science News for September 2, 1999
>
>Our Sun's Sizzling Corona:  Something funny's going on in the Sun's outer
>atmosphere.  This Science@NASA feature story explores the latest NASA
>research into the coronal mystery that led hundreds of scientists to the
>path of totality during the August 11, 1999 solar eclipse.  FULL STORY at
>http://science.nasa.gov/newhome/headlines/ast02sep99_1.htm
>
><a href="http://science.nasa.gov/newhome/headlines/ast02sep99_1.htm">link
>for AOL users</a>
>
>And don't forget to visit http://www.ThursdaysClassroom.com for educational
>lesson plans and activities related to this headline.
>
>URL: <a href="http://www.thursdaysclassroom.com">Thursday's Classroom</a>
>
>
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>============================================================
>
>Linda Porter
>Code SD23
>Science Systems Department
>NASA/Marshall Space Flight Center
>Huntsville AL  35812
>
>(256)544-7588
>(256)544-7128 (fax)
>linda.porter@msfc.nasa.gov
>
>http://science.nasa.gov/


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Phone: (301)846-5285       PO BOX B, Bldg. 378
FAX: (301)846-5266         FREDERICK  MD  21702-1201

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Date: Thu, 02 Sep 1999 17:13:22 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [49170] Re: qrp/130
Message-ID: <37CEE872.773@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

N1ODL@aol.com wrote:

> I did have a short QSO with a guy who signed /130 last night. At that time I
> did not know about the Maxwell contest. From reading the messgae posted on
> the web, I still do not know what I should be responding with to give him
> points. My wife was cleading up the other day and threw out my Sept. QST.
> (she was on a roll)

> Any help would be appriciated.
> Aron
> N1ODL/qrp
> Bedford, NH

Hi, Aron,

The operating event exchange is RST, apointment and name for /130 stations, RST and name for non /130 stations working the /130 stations. Some of the /130 stations are doing the minimum exchange; others are ragchewing a bit.  It is an operating event, not a contest.  The certificate is for contacting 25 /130 stations, endorseable in increments of 25, up to 100.  As I mentioned, a late, informal addition, is for QRP operation. For those that affirm that their contacts were made QRP, ARRL will put on a QRP sticker to that effect.

If you hold an ARRL appointment, or are a Life member, QSL buro volunteer (and a member), Volunteer Examiner (and are a member), are an ARRL awards manager (and are a member), serve as a Technical Advisor, etc. (there is a long list), you can sign /130.  If you have any questions about who can sign /130, email jcarcia@arrl.org, although I will also try to answer any questions here.  Even if you aren't a /130 station, get on and get that QRP endorsed award. :-)

73,
Ed Hare, W1RFI
ARRL Lab

---

Date: Fri, 03 Sep 1999 07:40:51 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49171] Re: Fw: Javascript source code - moon phases
Message-ID: <37CEEEE3.1B59CE59@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry Gang,

Yesterday I messed up the link on moon phases. Oh duh!

Try this:

http://javascript.internet.com/messages/moon-phases.html

--
73's

Ian Purdie

VK2TIP "I'll give you the TIP mate"
Budgewoi N.S.W. Australia
Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)
QRP-L member #1978.
URL - http://www.integritynet.com.au/~purdic/
URL - http://www.qsl.net/vk2tip/
"Three out of five Web experts agree that frames are the work of the devil and represent all that is evil about the Web. The remaining two experts are agnostic and think that frames are just a stupid idea" -

---

Date: Thu, 2 Sep 1999 17:11:15 -0400
From: Paul Antoniewicz <pja@sofsol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [49172] Amateur Radio, QRP and BSA
Message-ID: <213E5C009DFFD111AF93006008BFAB8E1E979E@ssi12>
MIME-Version: 1.0
Content-Type: text/plain

Greetings All,

My club is putting on a show and tell for the Boy Scouts of America Adventuring program. We are thinking about having club members bringing in their toys to show and explain the workings of Amateur Radio and its various uses and modes etc. One of their merit badges is in radio (operating and understanding etc). I was wondering if anyone had some input that would make a good impression on these young souls. This is going to include boys and girls. We would also like to appeal to the parental units to get involved with their children in this endeavour, and we are having a tough time trying to come up with something that will accomplish this undertaking. If anyone has some advice or thoughts or anything that might help make it better, I would appreciate hearing from you.

Tnx es 72

Paul kb9tnj QRP-L#1903

p.s. we will have 2 rigs on the air one qrp and the other slightly qro probably 20 to 30 watts. I am not sure if we are going to use the club call or not, but I will post it when I know.

Also if anyone has a parts list and instructions on building a tuna tin II, I would appreciate if you could email it to me. I would like to try to get it built before the event which happens 9/18/99.

Thanks again

---

Date: Thu, 2 Sep 1999 15:45:32 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-l@lehigh.edu>
Subject: [49173] Which Kit to Build? #7 The All Band Super Kits
Message-ID: <01bef594$dd5ee020$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Wow, this one is really interesting, yet I find it easy to make my choice. Now, you have built the range of kits, you have confidence, tools, skill and you want to build that "ALL EVERYTHING KIT" of your dreams. You know, the one that does it all in one box. My choice here is the K2 from Elecraft Radio, and I don't think it is a surprise to anyone.

The K2 from the team of Eric Swartz and Wayne Burdick is selling like hot cakes. They have shipped over 500 kits, and that is quite a feat when you consider that it costs $549 for the kit!! Yet hams all over the world are ordering this kit so fast that they can't keep up. There have been some serious delays in providing kits, but they are getting that worked out, (they are a new company you know). Eric told me last week that they are shipping fairly quickly now.

What does the K2 do? Here is the kit description from the Elecraft Web site.

EleCraft K2 160-10M CW/SSB Transceiver
 Product Description(4/23/99)

Easy to Build:
'No-wires' construction: most controls and connectors mount directly to PC boards.
Comprehensive user manual with step by step instructions and theory of operations.
Incremental assembly and test.
Modular, upgradeable.
No surface mount devices.
No specialized test equipment beyond a standard digital multi-meter is required for test and alignment. (Built in test.) The K2 even includes a built in general purpose frequency counter, volt meter and radio current drain meter.

Largest possible PC board pads and traces to simplify rework and repair.
Full documentation provided for user modifications.
K2 High Performance CW Base Unit, General Features:
Small, portable size. 2.9h x 7.8w x 8.2d inches.
Efficient 10-15 volt operation for home or field use.
Less than 110ma typical receive current (backlight off, low Ip mode, pre-amp off, headphones).
@200 ma typical receive current (high performance Ip mode)
Adjustable 0-10W PEP (via front panel menu).
Rugged, attractive custom enclosure.
Back-lit LCD display (backlight can be disabled).
160-10 meter ham band coverage, with some out of band overlap. (160 meters with 160m/RX Antenna option.)
PLL synthesized for low noise (no DDS spurs).
CW-only and SSB/CW (with SSB option).
Microprocessor controlled.
2 VFOs with split operation plus 10 memories.
Direct keypad entry of frequencies, memory channels and key parameters.
RIT and XIT.
Built-in speaker.
Headphone jack handles mono and stereo plugs
10 memories store Mode, VFO A/B, Split, RX filter, RX sideband (CW), etc.
Simple menu system for advanced settings. (Up to 2 menu functions can be assigned to the programmable front panel function keys.)
BNC antenna connector -- A QRP standard. (SO-239 on High Power option.)
Room for additional connectors on the rear panel for user modifications.
All options may be added at any time.
Receiver:
Double-balanced diode mixer for excellent front end dynamic range and IP3.
Ham Band bandpass RX/TX filtering, relay switched (for excellent IP2 on RX).
Preliminary K2 Performance Measurements (14MHz Typical Values)
MDS(dbm) IMDDR3(db) Ip3(dbm) Ip2(dbm) BDR(db)
-136/-131 96/97 +5/+10.7 +77/+78 125/133
XX/YY = preamp-on/preamp-off results; See K2 Performance Comparisons for more details.
RX pre-amp and attenuator. (Both switchable on/off.)
Single conversion RX to 4.915 Mhz IF.
Room for additional switchable IF crystal filters.
Smooth, Fast attack, IF-derived AGC (no 'popping' on strong signals) with fast/slow decay. (AGC can also be turned off).
IF gain adjust.
Sharp IF crystal filtering helps prevents receiver overload from signals outside the RX passband. (Much better adjacent signal rejection (without AGC pumping) than the switched capacitor audio only filtering of other rigs.)
1 Khz per knob revolution for fine tuning; also 10 and 100 Khz per revolution.
10 Hz display resolution (7 digit).
Bar-graph S/RF OUT/ALC meter.

CW Features:
Full break-in CW.
Built in keyer with 10 programmable memories and both popular iambic modes A and B.
Sharp, variable bandwidth CW crystal filter (250 - 1750 Hz).
Options for a fixed-bandwidth narrow crystal filter or a wide-bandwidth crystal filter for tuning the band.
Adjustable RX CW pitch with tracking TX side tone.
Selectable opposite sideband RX for QRM reduction.
Normal / Reverse paddle setting for Dot / Dash; Manual Key setting.
Efficient transmitter operation.

Whew!! That is a lot of radio!!  9 bands for $549!!  Here is the pricing information.

K2 and Options Pricing
K2 HF Transceiver (CW)  $549.00
SSB Option  $ 79.00
160M / 2nd RX Ant. $ 29.00
Noise Blanker $ 29.00
Internal Auto Tuner  $125.00
Internal 2.9AH Battery with Bracket Kit
(The K2 uses a PS-1229 Sealed Gel-Cell) $ 79.00
Battery Bracket Kit Only $ 39.00
Replacement 2.9 AH Battery $ 40.00
K2 Manual (Note: .pdf version free via web download) $ 29.00

Let's look at the other entries in this class, the Sierra, The OHR500 and the Hands GQ2000.

First the Hands GQ2000 -
Information from web page:  GQ2000 CW Transceiver 5w Starter kit 80/20

Discrete commercial 6 pole xtal IF filter Option to cover all HF bands PLL and DDS LO options for high stability 5 or 20 watt PA options Full QSK 98 db dynamic rx range
The GQ2000 is a high performance multiband cw transceiver based on the very successful GQ mono-banders. Designed as a project for the GQRP club magazine Sprat, the tcvr allows a one or two band starter configuration through to a full ten band rig.
The base kit comprises of the IF2000, RF2000, AMP2 and the RTX-VF055 or the optional DDS2. This gives a 5w 80/20 mtrs qsk tcvr with qsk changeover. Alternatively, adding the RTX-AMP and DC10 gives a qsk 20 watt tcvr. The transceiver can be put on any of the other HF bands by adding the RTX PLL system and populating the required band filters on the RF2000.
The Intermediate frequency is at 9mhz and features a dedicated cw xtal filter by Network Sciences Inc. This discreet 50 Ohm 6 pole filter has 500hz bandwidth with an excellent shape factor and is a perfect match for the 50

Ohm RF2000 front end. A single MC1350p is used as an IF amplifier followed by a NE602 or 612 as a product detector.
Audio from the detector is pre-amplified by a LM351 op-amp - this makes up the insertion loss of the following ele passive audio filter. This has a top cut of 1khz and removes all traces of audio hiss. The audio pa is a TDA2003, although a 20watt device, it is considerably under-run in this application and gives genuine hi-fi quality. The module also contains the QSK timing circuit and a keyed CIO for the tx section. The CIO is followed by 5 element LPF to remove any harmonic content.

What does this kit cost? I could not figure it out from the Kanga US web page. As near as I can tell, the 2 band 20/80 meter starter kit, without the DDS VFO is $450. If you are interested in the full 10 band kit, then you need to contack Bill Kelsey at Kanga for prices. Since I am not sure of the pricing, I did not consider this kit in the super kit category, but I did want to mention that it is available to be complete. I do imagine that it will cost more than the $549 of the K2, and on that alone, I would pick the K2.

The next entry is the OHR 500 from Morse Express. Here is the description from their web page.

The OHR 500 CW Transceiver Kit
Optional Iambic Keyer: $39.95
The Oak Hills Research OHR500 is a five band CW transceiver that covers 150 KHz of 80, 40, 30, 20 and 15M bands. Some of the features include a new quieter single signal superhet receiver, diode ring mixer, new ultra stable pre-mix VFO providing high side L.O. injection. The VFO is tuned with a new high quality double bearing air variable cap. Additional features include RIT, four pole crystal filter, four pole audio filter switchable from front panel, TX power out control on front panel. The receiver includes a high performance AGC circuit which can be turned off at front panel, RF gain control, true sinewave sidetone with separate frequency and level controls, room filling audio at rear panel speaker jack. A scope is NOT required for alignment. We have included on-board RF probes so you can use your DMM and frequency counter for alignment. The L.O. signal is available at a rear panel jack for use with the DD-1 digital display. Chassis is pre-punched for optional keyer kit. The transmitter provides 4-5 watts out on all bands except 15M which is 3-3.5 watts. The transmitter also has a silky smooth QSK circuit. The transceiver operates on 12 - 13.6VDC. The current drain on RX is 270mA and 1A on transmit. The completed transceiver measures (HWD) 4" x 8 1/4" x 8 1/4" and weighs 3.8 pounds. The kit is complete with cabinet, three high quality silkscreened PCB's, all components and instructions.

The cost of this kit is $349.95, but it does not come with a keyer or frequency display. The keyer is $39.95 and the frequency display is $74.95, and I consider those a necessity, so the kit is now $464.85. With that you get 5 bands, with the K2 you get 9, plus many, many more features for the

extra $85.  My vote is for the K2.

Now the Wilderness Sierra.  Here is the description from their web page.
The Sierra

The Sierra is the only compact, low-current, multiband transceiver kit available. Designed by N6KR and extensively field-tested by the NorCal QRP Club, the Sierra has been completely upgraded for Wilderness Radio--including a painted and silk-screened enclosure and improved performance on both transmit and receive. We've also added ABX -- an adjustable bandpass crystal filter.
The Sierra uses plug-in band modules for 80, 40, 30, 20, 17 and 15 meters. (You can build modules for the other bands by purchasing additional band module PC boards.) Since there is no band switch, and because all controls and connectors are mounted on the main board, there's virtually no chassis wiring.
For the portable operator, the Sierra offers very low receive-mode current drain: only 35mA. The superhet receiver has excellent AGC range and sensitivity, RIT, and a 400Hz crystal filter. Using ABX, you can vary the crystal filter's 6dB passband from about 150 to 1500Hz to adapt to operating conditions. Transmit power is about two watts. QSK is fast and clean.
In addition, there's built-in flexibility: extra panel and interior space that invites customization. You can even store up to four band modules inside the cabinet. Quick-release latches on either side of the cabinet provide easy access to internal controls and for changing band modules.

Sierra shown with KC2 (option) installed

For more details on the original NorCal version of the Sierra, refer to the article by N6KR in the 1996 ARRL Handbook.
Sierra Specifications
Note: Power output will vary somewhat on different bands and with different settings of the drive control. Unless otherwise noted, measurements were made with a 13.8V supply and 50  load at the antenna jack.
General
Size: Cabinet: 2.6"(H)x6.3"(W)x5.3"(D) Overall: 2.8"(H)x6.6"(W)x7.0"(D) Band Module: 1.25"(H)x4.0"(W) Weight: Approx. 2 lbs Power Requirements: 10 to 15VDC Receive: 35mA; 35-70mA when using speaker Transmit: 275-350mA at 2 watts (typical) Frequency Ranges: 3.5-3.65,7.-7.15, 10.0-10.15, 14.0-14.15,18.0-18.15,21.0-21.15 VFO operating range: 2.935 to 3.085 MHz, w/8:1 vernier Calibration: 5KHz increments, readable to 1kHz Drift: < 100Hz/hour after 30 min. warm-up (RIT off, 25 C, top cover on)
Transmitter Power Output: 1.5 to 3 watts, depending on band Spurious products: -40dB or better (typical) Final Amp efficiency: 60-75% (typical) Transmit offset: 400-1000 Hz, adjustable Transmit-receive delay: 0.3 seconds nominal; adjustable
Receiver Sensitivity: Better than 0.5uV for 10dB S+N/N Selectivity: 150Hz wide to 1500Hz wide at -6dB using built-in ABX control; w/ ABX control at

50%: -6dB @400Hz, -32dB @ 1KHz AGC range: 60 to 80 dB (typical) I.F.: 4.915MHz; 4-pole Cohn Xtal filter plus single-crystal filter after I.F. amp R.I.T. Range: +/- 2KHz nominal (can be increased) Audio output: 0.3 watts max into 8 to 32  load

Now for the pricing:
The basic Sierra kit is $215, plus shipping ($7 U.S., $12 Canada/Mexico, $20 DX).
Package prices are as follows:

$245 with 1 band module

$269 with 2 band modules

$295 with 3 band modules

$369 with all 6 band modules

Call for the 9 band price
$7 shipping US, $12 CANADA AND MEXICO and $20 DX.

Band Module Kits are available at $31.00 + $3 shipping US/CAN/MEX and $5 DX. Band module PC boards also available separately at $9.50 + $3 shipping US/CAN/MEX and $5 DX.

Again we have to do some figuring to get the 9 band price.  Here is what I come up with.  The price difference between the 6 band module and the 3 band module kit is $74, so I assume that the same would apply to the 6 and 9 band module kit.  I may be wrong on this but I bet it is pretty close.  The 6 band kit is $369 and if we add $74 to the price for the extra 3 bands on the 9 band kit, we get $443.  But we are not done yet.  That does not include the KC-2 keyer/frequency counter/wattmeter/SWR meter option.  That adds $75 to the kit plus another $15 for the drilled and labeled front panel that fits the KC-2.  So now we are at $533 for the 9 Band Sierra with KC-2 options.  No contest here, the winner is the K2 at $549.

But what if we compare the 6 band rig instead of the 9 band?  You drop the price $74, and you are still at $459, but you don't get 3 bands, again, the K2 wins.

Personally I like the K2, I think it is the ultimate kit on the market today.  There are a couple of things that I don't like.  One is the industrial looking case.  I wish that they had used counter sunk screws like Doug Hauff does in his DSW and Red Hot Radio cases.  They give a much more finished look to the rig.  Just my opinion, but everytime I see the rig those screw heads sticking out bother me.  The second thing is the keyer.  To use the keyer memory you have to push 2 buttons.  Wish it was like the keyer from Idiom Press that you just push a button on.  Other than that, I

love the rig.  I have not built one, but I did operate Jay Bromley's for several hours when I was in Arkansas this summer.  I am going to treat myself to a kit soon.  (JoAnne's phone number is 209-392-3522 in case you want to call and have her add it to my Christmas list, grin).

There it is, my choice for the All Band Super Kit, the K2.  But let me add a word of warning here.  Please build a kit or two before you build the K2, in fact, I would suggest that you build several before you tackle this one. It is the crown jewel of kits today, but it does deserve an experienced builder.  But if you have built most of the kits in this series, there is no reason that you shouldn't build the K2 with ease and enjoy the process immensely.

The next installment will be the final one, when I suggest a project for all of those who have built the K2 and want the next challenge.  It is out there, and you will be challenged.  That comes tomorrow in What Kit to Build #8, the Next Step.

Hope you enjoy this series.  Again, this is my opinion and attempt to pull together accurate information for the builder as to what I think is the best value for the dollar in kits today and provide an enjoyable learning experience at the same time.  I believe that all 4 of the rigs I mentioned today are good kits, but I do have a favorite and I said what that was and why.  72, Doug, KI6DS

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End of QRP-L Digest 1567
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